



Polar 54 Design Guide

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Polar 54 Overview

Dimensions

Screen Height up to 3.0m* Doorset Height up to 3.0m

Acoustic Performance

Single Glazed up to 41dB $(R_W)^*$ Double Glazed up to 47dB $(R_W)^*$ Speech Privacy Potential up to 'Good'

Structural Performance

0.74kN/m up to 3.0m* (BS 6180:2011) Severe Duty up to 3.0m* (BS 5234-2:1992)

Fire Performance

None

Deflection Head

+/-25mm

Glass Options

10mm & 12mm Toughened 13.5mm Toughened Laminated 10.8mm, 12.8mm & 14.8mm Acoustic Laminated

Doorset Options

10mm & 12mm Glass Doors 44mm & 54mm Timber Doors Sonik 52, 70 & 70R Doors

Optional Extras and Finishes

- × Blinds
- ✓ Manifestations
- ✓ Graphics
- ✓ Switch Glass
- ✓ Kross Glaze
- ✓ Curved Glass*
- ✓ Polyester Powder Coat Finish
- Satin Anodised Finish
- ✓ Special Anodised Finish



Dependent on configuration and specification

Polar 54 Introduction

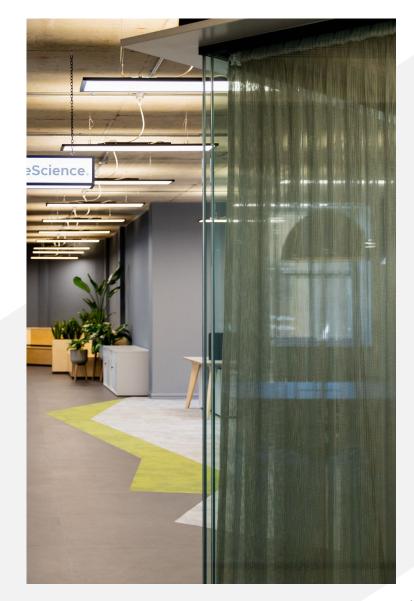
www.komfort.com

Polar 54 is a design response to the architectural trend for narrow gauge glazed partitioning. This elegant 54mm wide system is available as double or offset single glazed with a range of glass configurations available. The frameless bubble jointed glazing and minimal trackwork provides contemporary aesthetics in any working environment, allowing an abundance of light to fill the space to naturally brighten any room.

For any busy environment, this system allows designers to get imaginative with space by creating private meeting rooms, boardrooms, quiet areas and more. Increase flexibility and create the perfect working environment.







Polar 54 Specification

Polar 54 can accommodate 10-14.8mm glass in toughened, toughened laminated and acoustic laminated to meet a range performance and budgetary requirements, all glass options can be configured as offset single glazed or slimline double glazed.

Boasting acoustic performance up to 41dB (R_{W}) offset single glazed and up to 47dB (R_{W}) double glazed, with structural performance up to severe duty and 0.74kN/m line loads.

The system includes an aluminium door frame and is compatible with Komfort's Sonik, single glazed and timber door options, either full height or with a glazed over panel. Other features include a deflection head for +/-25mm and integration components into drywall or Komfort's Komfire 75 and 100 systems.









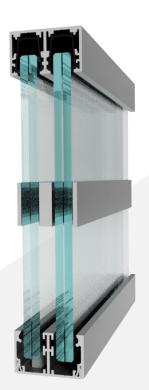
Polar 54 Specification

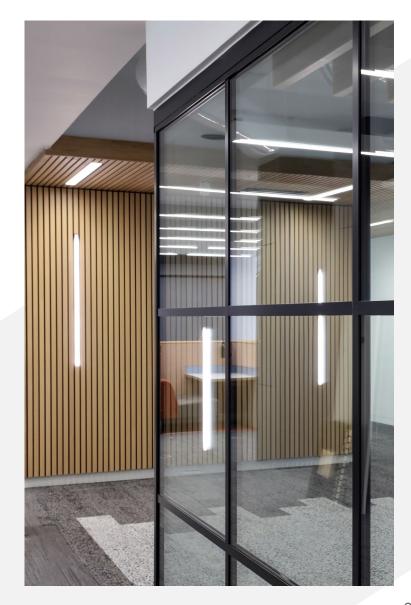
Applied Kross Glaze bars are available for all glass types, in both offset single glazed or slimline double glazed. In the double glazed configuration, a solid aluminium bar is applied to the internal glass and backed with foam to create the illusion of individual panes without compromising performance. In fact, this addition improves the acoustic performance by up to $2dB (R_W)$.

For visual privacy manifestation, graphics and Switch Glass are available with this system.

All aluminium components for the screen and door frames will be powder coated to any RAL or BS colour code, please ask for availability. If a specialist finish is required on the aluminium, please contact your local Project Specification Manager or our Technical Department.







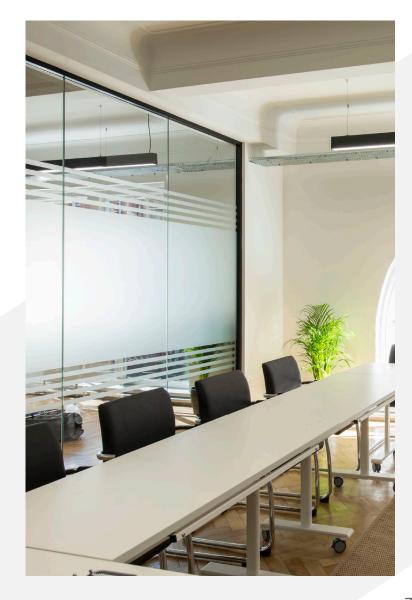




Polar 54 Acoustic Performance

Airborne sound insulation laboratory testing of Polar 54 offset single glazed partitioning in accordance with BS EN ISO 10140-1:2016 and BS EN ISO 10140-2:2010.

| Acoustic Performance of Polar 54 Offset Single Glazed Screens | | | | | |
|---|---------------------------------|-------------|--|--|--|
| Glass Configuration | dB Rating | Certificate | | | |
| 10mm Toughened Glass with Bubble Joints | 31dB (<i>R</i> _W) | K54-AP-01 | | | |
| 12mm Toughened Glass with Bubble Joints | 33dB (<i>R</i> _W) | K54-AP-03 | | | |
| 10.8mm Acoustic Laminated Glass with Bubble Joints | 38dB (<i>R</i> _W) | K54-AP-02 | | | |
| 12.8mm Acoustic Laminated Glass with Bubble Joints | 39dB (<i>R</i> _W) | K54-AP-04 | | | |
| 14.8mm Acoustic Laminated Glass with Bubble Joints | 41dB (<i>R</i> _W) | K54-AP-05 | | | |
| 13.5mm Toughened Laminated Glass with Bubble Joints | 36dB (<i>R</i> _W)† | K54-AP-16 | | | |



It should be noted that in an on-site acoustic test, a glazed partition can result in a 3dB to 5dB lesser performance than under laboratory conditions. This can be further affected by ambient noise levels on the receiving side of the test sample and by poorly insulated abutments and voids above and below the partition which will result in a 'flanking' path for audible sound.

[†] This glass type has not been laboratory tested by Komfort and the sound insulation rating shown is based on the glass manufacturers data.

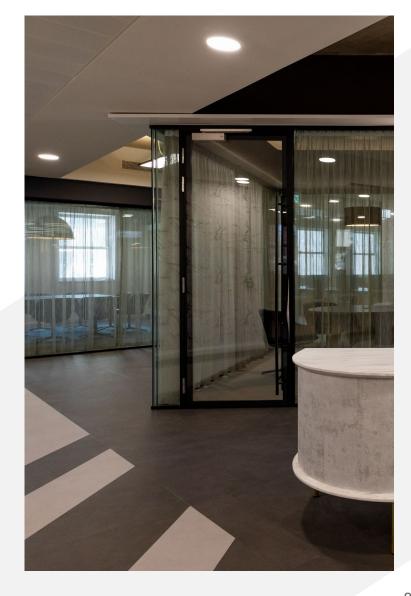




Polar 54 Acoustic Performance

Airborne sound insulation laboratory testing of Polar 54 double glazed partitioning in accordance with BS EN ISO 10140-1:2016 and BS EN ISO 10140-2:2010.

| Acoustic Performance of Polar 54 Double Glazed Screens | | | | | | |
|--|--------------------------------|-------------|--|--|--|--|
| Glass Configuration | dB Rating | Certificate | | | | |
| 12mm & 10mm Toughened Glass with Bubble Joints | 39dB (<i>R</i> _W) | K54-AP-06 | | | | |
| 12mm Tough. & 10.8mm Aco. Lam. Glass with Bubble Joints | 40dB (<i>R</i> _W) | K54-AP-07 | | | | |
| 12.8mm Aco. Lam. & 10mm Tough. Glass with Bubble Joints | 40dB (<i>R</i> _W) | K54-AP-09 | | | | |
| 12.8mm Aco. Lam. & 12mm Tough. Glass with Bubble Joints | 41dB (<i>R</i> _W) | K54-AP-10 | | | | |
| 12.8mm & 10.8mm Acoustic Lam. Glass with Bubble Joints | 41dB (<i>R</i> _W) | K54-AP-08 | | | | |
| 12.8mm & 12.8mm Acoustic Lam. Glass with Bubble Joints | 45dB (<i>R</i> _W) | K54-AP-11 | | | | |
| 14.8mm & 10.8mm Acoustic Lam. Glass with Bubble Joints | 44dB (<i>R</i> _W) | K54-AP-12 | | | | |
| 14.8mm & 12.8mm Acoustic Lam. Glass with Bubble Joints | 45dB (<i>R</i> _W) | K54-AP-13 | | | | |
| 14.8mm & 10.8mm Aco. Lam. Glass with Applied Kross Glaze | 46dB (<i>R</i> _W) | K54-AP-14 | | | | |
| 14.8mm & 12.8mm Aco. Lam. Glass with Applied Kross Glaze | 47dB (<i>R</i> _W) | K54-AP-15 | | | | |



It should be noted that in an on-site acoustic test, a glazed partition can result in a 3dB to 5dB lesser performance than under laboratory conditions. This can be further affected by ambient noise levels on the receiving side of the test sample and by poorly insulated abutments and voids above and below the partition which will result in a 'flanking' path for audible sound.

[†] This glass type has not been laboratory tested by Komfort and the sound insulation rating shown is based on the glass manufacturers data.





Polar 54 Speech Privacy Potential

Examples of Speech Privacy Potential for Polar 54 offset single and double glazed screens are given below with varying degrees of background noise levels for office environments.

| Speech Privacy Potential of Polar 54 Offset Single & Double Glazed Screens | | | | | | | |
|--|--|------------|------------|------------|--|--|--|
| Glass Type & Sound Level | Privacy of Speech from the Next Room with Background Noise Level | | | | | | |
| Difference | 25dBA | 30dBA | 35dBA | 40dBA | | | |
| OSG 10.8mm Acoustic Lam. 34dB (<i>D</i> _W)* | 59 - Poor | 64 - Poor | 69 - Basic | 74 - Basic | | | |
| OSG12.8mm Acoustic Lam. 35dB (<i>D</i> _W)* | 60 - Poor | 65 - Basic | 70 - Basic | 75 - Good | | | |
| OSG14.8mm Acoustic Lam. 37dB (<i>D</i> _W)* | 62 - Poor | 67 - Basic | 72 - Basic | 77 - Good | | | |
| 12.8+10.8mm Acoustic Lam. 37dB (<i>D</i> _W)* | 62 - Poor | 67 - Basic | 72 - Basic | 77 - Good | | | |
| 12.8+12.8mm Acoustic Lam. 41dB (<i>D</i> _W)* | 66 - Basic | 71 - Basic | 76 - Good | 81 - Good | | | |
| 14.8+12.8mm Acoustic Lam. 41dB (<i>D</i> _W)* | 66 - Basic | 71 - Basic | 76 - Good | 81 - Good | | | |
| 14.8+12.8mm w/Kross Glaze 43dB (<i>D</i> _W)* | 68 - Basic | 73 - Basic | 78 - Good | 83 - Good | | | |

Speech Privacy Potential Explained

Speech Privacy Potential (SPP) is the value and rating of speech intelligibility between two rooms. The privacy of the partition is determined by the intelligibility of speech outside of the room that is generated within the room. A partition can provide a high degree of speech privacy, even if speech is audible, provided that speech is not intelligible. The poorer the speech intelligibility, the more private the room.

It must be noted that the aim of creating privacy between rooms lies in in reducing speech intelligibility to a level at which speech cannot be understood, rather than reducing speech level to inaudibility.

Speech Privacy Potential is calculated from the addition of two factors; the background noise level of the receiving room, expressed in terms of dBA, and the acoustic separation of the partition between the rooms, expressed as the field performance sound insulation of the partition in dB $(D_{\rm m})$.

The values and corresponding degrees of privacy ratings are shown in the table below.

$$dB(D_w) + dBA = SPP$$

| Rating | SPP | Description of Privacy | |
|--------|-------|---|--|
| High | 85 < | Raised voices are barely audible and unintelligible | |
| Good | 75-84 | Normal speech is barely audible, raised voices are mostly unintelligible | |
| Basic | 65-74 | Normal speech can be overheard some of the time, raised voices can be heard | |
| Poor | < 65 | Normal speech can be heard most of the time | |

^{*} The examples of weighted sound level difference (D_W) data shown is assumed as a nominal 4dB less than the weighted sound reduction index (R_W) from laboratory testing, as with an on-site acoustic test a glazed partition can result in a 3dB to 5dB lesser performance than under laboratory conditions. This can be further affected by ambient noise levels on the receiving side of the test sample and by poorly insulated abutments and voids above and below the partition which will result in a 'flanking' path for audible sound.





Polar 54 Structural Performance

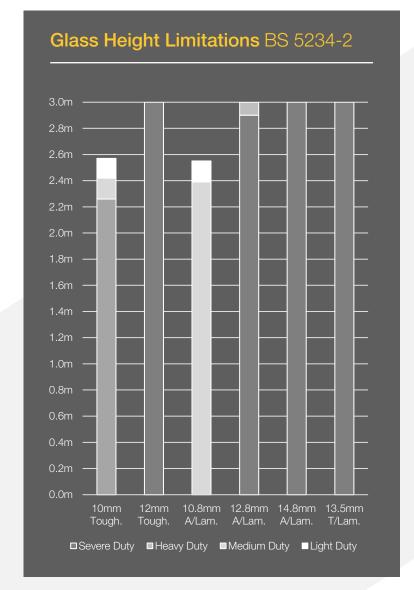
Strength and robustness analysis of Polar 54 offset single and double-glazed partitions in accordance with BS 5234-2:1992 (Annex A and Annex G)† and BS 6180:2011 when used as a barrier.

| Structural Performance of Polar 54 Glazed Partitions to BS 5234-2:1992 | | | | | | |
|--|------------|-------------|-------------|--|--|--|
| Loaded Glass & Joint Type | Duty Grade | Max. Height | Certificate | | | |
| | Heavy | 2260mm | | | | |
| 10mm Toughened with Bubble Joints | Medium | 2420mm | K54-SP-03 | | | |
| | Light | 2570mm | | | | |
| 12mm Toughened with Bubble Joints | Severe | 3000mm | K54-SP-02 | | | |
| 10.8mm Acoustic Lam, with Bubble Joints | Medium | 2390mm | K54-SP-06 | | | |
| 10.0HIIII ACOUSTIC LAIII. WILLI BUDDIE JOINTS | Light | 2550mm | N34-3F-00 | | | |
| 12.8mm Acoustic Lam, with Bubble Joints | Severe | 2900mm | K54-SP-04 | | | |
| 12.0Hilli Acoustic Lam. With Bubble Joints | Heavy | 3000mm | K04-5P-04 | | | |
| 14.8mm Acoustic Lam. with Bubble Joints | Severe | 3000mm | K54-SP-05 | | | |
| 13.5mm Toughened Lam. with Bubble Joints | Severe | 3000mm | K54-SP-07 | | | |

| Structural Performance of Polar 54 Glazed Partitions to BS 6180:2011 | | | | | | |
|--|-----------|-------------|-------------|--|--|--|
| Loaded Glass & Joint Type | Line Load | Max. Height | Certificate | | | |
| 12mm Toughened with Bubble Joints | 0.74kN/m | 3000mm | K54-SP-02 | | | |
| 14.8mm Acoustic Lam. with Bubble Joints | 0.74kN/m | 2500mm | K54-SP-05 | | | |
| 13.5mm Toughened Lam. with Bubble Joints | 0.74kN/m | 2450mm | K54-SP-07 | | | |

Polar 54 structural performance is assessed based on physical test data and Finite Element Analysis of supported glass by independent consultants.

Duty ratings are graded in four categories; Light Duty for domestic accommodation, Medium Duty for office accommodation, Heavy Duty for public circulation and industrial areas, Severe Duty for major circulation and heavy industrial areas.



[†] The resulting data relates to BS 5234:2 1992 Annex A for the determination of partition stiffness and Annex G for the determination of resistance to crowd pressure.



Polar 54 Structural Fixings Guide

The table below provides guidance for structural fixings into a range of typical substrates when installing Polar 54 offset single and double glazed partitions.

| Structural Fixings Guide for Polar 30 Glazed Partitions | | | | | | | |
|---|----------|-------------------------------------|-----------------------|-----------|--------------------|--|--|
| Substrate | F | ixing Type | Minimum Engagement | Line Load | Maximum Centres | | |
| Timber | | No.8 (4mm) Wood Screw | 25mm | 0.74kN | 400mm | | |
| Tin <0.8mm | / | Drywall Screw | 25mm | 0.74kN | 500mm | | |
| Tin >0.8mm | <i>/</i> | Jack Point Screw | 25mm | 0.74kN | 800mm | | |
| Concrete or Screed | | No.8 (4mm) Wood Screw & Rawlplug | 25mm | 0.74kN | 500mm | | |
| Concrete or Screed | | Hilti HUS3-P M6 Screw | 42mm | 0.74kN | 1000mm | | |
| Concrete or Screed | | Rawlplug M8 x 80 | 70mm | 0.74kN | 600mm | | |
| Steel <3mm | 70 | 5.5x19mm Low Profile Head Screw | 12mm | 0.74kN | 800mm | | |
| Steel 4-12mm | | 5.5x25mm Low Profile Head Screw | 12mm | 0.74kN | 800mm | | |

It should be noted that any substrate interfacing a Polar system must be built and certified to withstand equal or greater loads than those specified for the partition. All trackwork must be fixed directly to a substantial structural element without any form of packing.

Please be aware that the build-up of substrates/grounds on each project may differ and that the fixings shown are for a guidance only. For this reason, we recommend that any structural calculations should be site specific.





Polar 54 Component Identification

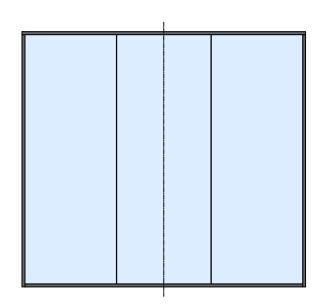
| Trackwork & Door Frame Components | | | | | | | | |
|-----------------------------------|------|--|-----------|----------|---|-----------|----|------------------------------------|
| Part Code | ID | Description | Part Code | ID | Description | Part Code | ID | Description |
| K54HT | | Head Track | K54FT | # | Floor Track | K54DF | | Door Frame |
| K54GB | K T | 32mm Glazing Bead | K54DH | | Deflection Head | K54DHC | | Deflection Head Channel |
| K54WA75 | ETTI | 75mm Drywall Wrap Around Adaptor Post | K54WA100 | LM | 100mm Drywall Wrap Around Adaptor Post | K54TJ100 | | 100mm Tape & Joint Adaptor Post |
| K54GI | | Glazing Infill | K54BI | | Base Infill | K54KGB | | 1-1/4" x 3/8" Kross Glaze Bar |
| 109 | | 32mm x 3mm Flat | | | | | | |

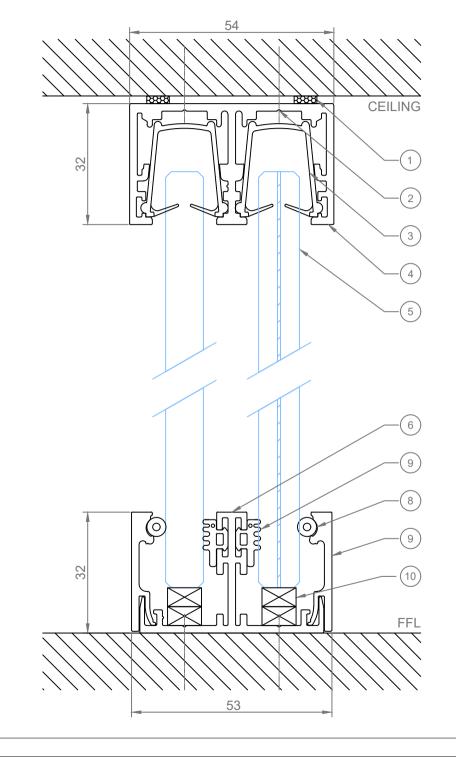
| Cleats, Brackets & Fixings | | | | | | | | |
|----------------------------|----|------------------------------|-----------|----|---|-----------|--|------------------------------------|
| Part Code | ID | Description | Part Code | ID | Description | Part Code | ID | Description |
| K54SC | | Narrow Stealth Cleat | K54DFB | | Door Frame Floor Bracket | K54C180 | / | Straight Junction Cleat |
| K54C90 | | 90° Corner Junction Cleat | K54C135 | | 135° Corner Junction Cleat | 311 | Name of the last o | 38mm x No 8 CSK Doorframe Screw |
| DF16042 | / | 42mm Drywall Screw | DFHS.75 | / | Self-Drilling Drywall Screw 4.2 x 75mm | | | |



Polar 54 Component Identification

| | Glazing Gaskets, Foams & Tapes | | | | | | | |
|-----------|--------------------------------|---|-----------|----|--------------------------------------|-----------|----|---|
| Part Code | ID | Description | Part Code | ID | Description | Part Code | ID | Description |
| SJ20 | \Box | Glazing Channel Gasket for 10-14.8mm Glass | K54DS | 73 | Door Frame Buffer Seal | K54BG4B | 0 | 4mm Dia. Hollow Base Gasket for 12-12.8mm Glass |
| K54BG5B | 0 | 5mm Dia. Hollow Base Gasket for 10-10.8mm Glass | SJ26.10B | ₽ | E Gasket for 10- 10.8mm Glass | SJ26.12B | ₱ | E Gasket for 12- 12.8mm Glass |
| SJ34 | 0 | Bubble Dry Joint for 10-12.8mm Glass | K35BJ | 0 | Bubble Dry Joint for 14.8mm Glass | 174 | | 6mm x 1mm Foam for 14.8mm Glass |
| 175 | | 6mm x 2mm Foam for 14.8mm Glass | 342 | | 12mm x 6mm Foam Rubber | K54KGF | | 18mm x 4mm Foam Rubber |
| TAPE19.1C | | Tesa 62932 500um Double Sided PE Foam Tape | | | | | | |







COMPONENT KEY:

| 1 | 342 FOAM |
|----|-------------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | SJ20 |
| 4 | K54HT |
| 5 | 10-10.8mm (CFT or Lam.) GLASS |
| 6 | K54FT |
| 7 | SJ26.10B |
| 8 | K54BG5B |
| 9 | K54GB |
| 10 | PSUN PACKERS |
| | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Vertical Screen 10-10.8mm Glass



0 min Integrity 0 min Insulation



1:1

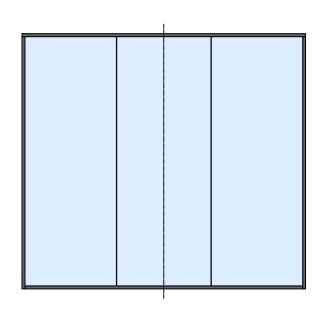
Deflection

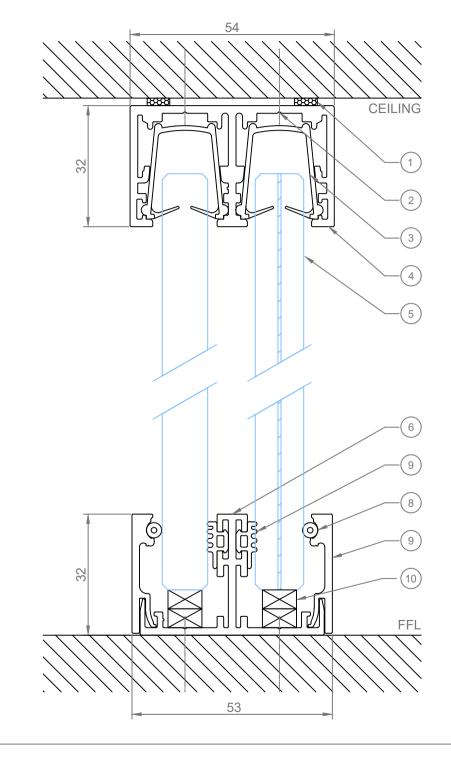
DRAWING NO: DATE: K54-VS-01 10/03/22

SCALE:

| Glazed Module Parameters - 10mm Toughened | | | | | | |
|---|--------|--|--|--|--|--|
| Unit Max. Height Max. Width | | | | | | |
| Module Size | 1200mm | | | | | |
| Glass Size 2540mm 1196mm | | | | | | |
| Glass Weight - 10mm Toughened = 25kg/m² | | | | | | |

| Glazed Module Parameters - 10.8mm Acoustic Laminated | | |
|--|-------------|------------|
| Unit | Max. Height | Max. Width |
| Module Size | 2550mm | 1200mm |
| Glass Size | 2520mm | 1196mm |
| Glass Weight - 10.8mm Acoustic Laminated = 27kg/m² | | |







Polar 54

COMPONENT KEY:

| 1 | 342 FOAM |
|----|-------------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | SJ20 |
| 4 | K54HT |
| 5 | 12-12.8mm (CFT or Lam.) GLASS |
| 6 | K54FT |
| 7 | SJ26.12B |
| 8 | K54BG4B |
| 9 | K54GB |
| 10 | PSUN PACKERS |
| | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Vertical Screen 12-12.8mm Glass



0 min Integrity 0 min Insulation



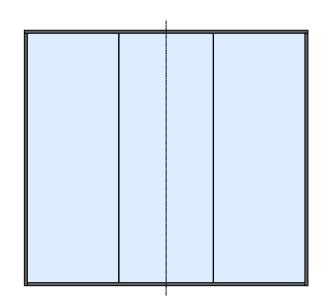
Deflection

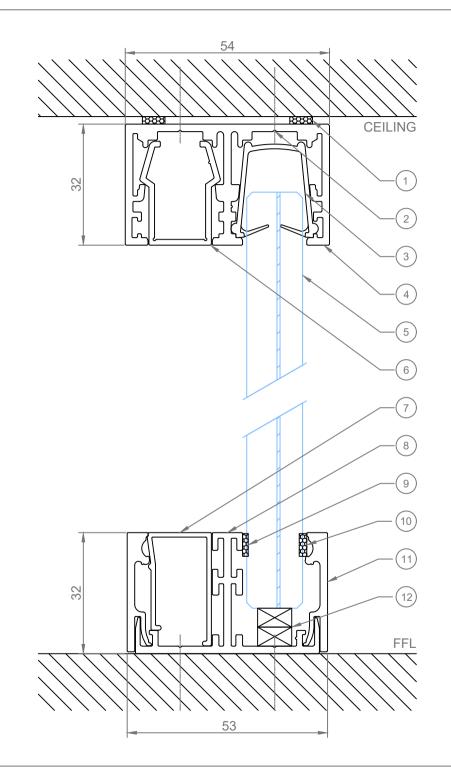
DRAWING NO: DATE: K54-VS-09 10/03/22

SCALE: 1:1



| Glazed Module Parameters - 12.8mm Acoustic Laminated | | |
|--|-------------|------------|
| Unit | Max. Height | Max. Width |
| Module Size | 3000mm | 1200mm |
| Glass Size | 2970mm | 1196mm |
| Glass Weight - 12 8mm Acquetic Laminated = 32kg/m² | | |







Polar 54

| COMPONENT | KEY: |
|-----------|------|

| 1 | 342 FOAM |
|----|----------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | SJ20 |
| 4 | K54HT |
| 5 | 14.8mm (A/Lam) GLASS |
| 6 | K54GI |
| 7 | K54BI |
| 8 | K54FT |
| 9 | 174 |
| 10 | 175 |
| 11 | K54GB |
| 12 | PSUN PACKERS |
| | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Vertical Screen 14.8mm Glass



0 min Integrity 0 min Insulation



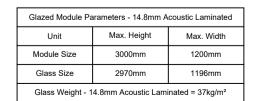
K54-VS-02

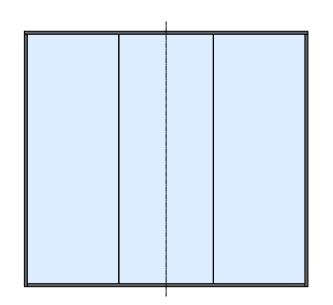
0 mm

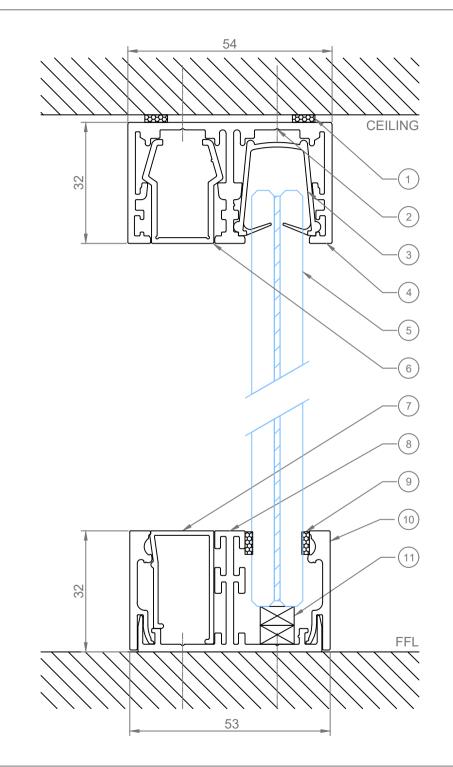
| | Dellection | |
|---------|------------|-------|
| DRAWING | NO: | DATE: |

SCALE: ISSUE NO: 1:1 5

10/03/22









olar 54

COMPONENT KEY:

| 1 | 342 FOAM |
|----|----------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | SJ20 |
| 4 | K54HT |
| 5 | 13.5mm (T/Lam) GLASS |
| 6 | K54GI |
| 7 | K54BI |
| 8 | K54FT |
| 9 | 175 |
| 10 | K54GB |
| 11 | PSUN PACKERS |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Vertical Screen 13.5mm T/Lam. Glass



0 min Integrity 0 min Insulation

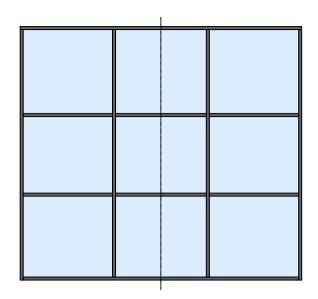


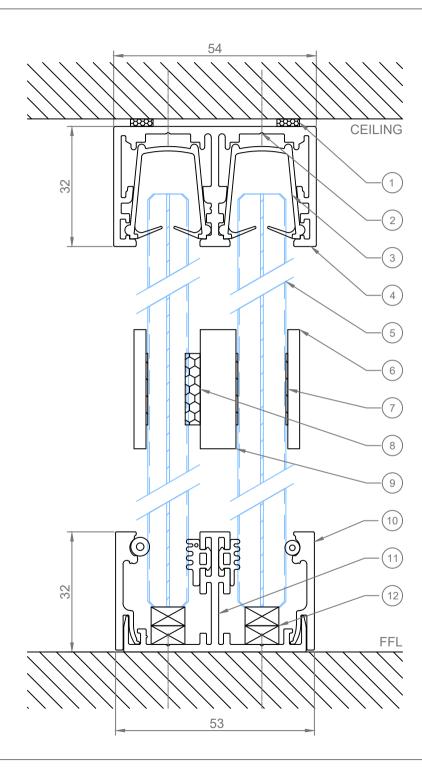
0 mm Deflection

DRAWING NO: DATE: K54-VS-10 10/03/22

SCALE: ISSUE NO: 1:1 2

| Glazed Module Parameters - 13.5mm Toughened Laminated | | |
|---|-------------|------------|
| Unit | Max. Height | Max. Width |
| Module Size | 3000mm | 1200mm |
| Glass Size | 2970mm | 1196mm |
| Glass Weight - 13.5mm Toughened Laminated = 34kg/m² | | |







Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | SJ20 | |
| 4 | K54HT | |
| 5 | 10-14.8mm (CFT or Lam.) GLASS | |
| 6 | 109 | |
| 7 | TAPE19.1C | |
| 8 | K54KGF | |
| 9 | K54KGB | |
| 10 | K54GB | |
| 11 | K54FT | |
| 12 | PSUN PACKERS | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Vertical Screen Kross Glaze Bars

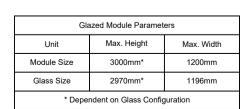


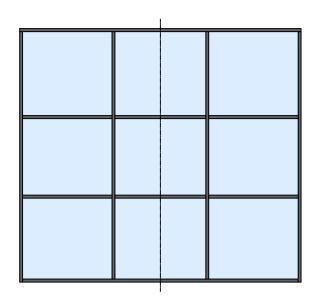
0 min Integrity 0 min Insulation

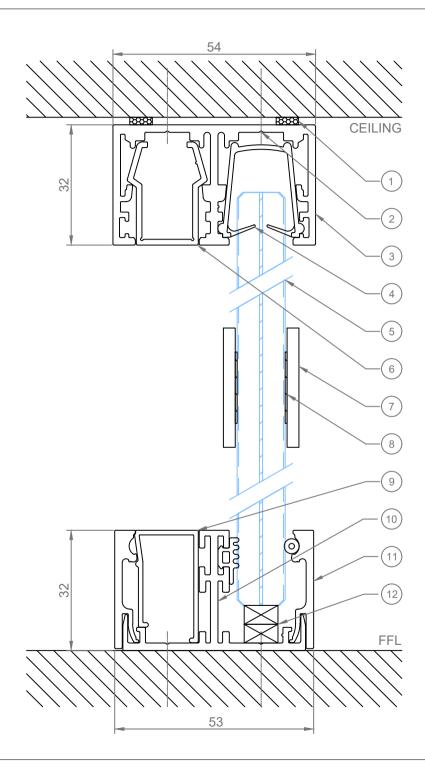


0 mm Deflection

| DRAWING NO: | DATE: |
|-------------|-----------|
| K54-VS-06 | 05/05/21 |
| SCALE: | ISSUE NO: |









Polar 54

| COM | COMPONENT KEY: | | |
|-----|-------------------------------|--|--|
| 1 | 342 FOAM | | |
| 2 | SUITABLE STRUCTURAL FIXING | | |
| 3 | K54HT | | |
| 4 | SJ20 | | |
| 5 | 10-14.8mm (CFT or Lam.) GLASS | | |
| 6 | K54GI | | |
| 7 | 109 | | |
| 8 | TAPE19.1C | | |
| 9 | K54BI | | |
| 10 | K54FT | | |
| 11 | K54GB | | |
| 12 | PSUN PACKERS | | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Vertical Screen Kross Glaze Bars

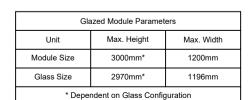


0 min Integrity 0 min Insulation

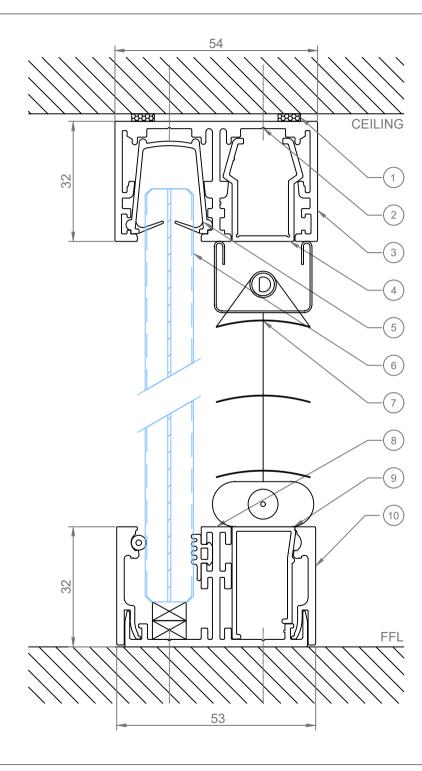


0 mm Deflection

| DRAWING NO: | DATE: |
|---------------|-----------|
| K54-VS-07 | 05/05/21 |
| SCALE: 1:1 | ISSUE NO: |









Polar 54

| COMPONENT KEY: | |
|----------------|-------------------------------|
| 1 | 342 FOAM |
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54HT |
| 4 | K54GI |
| 5 | SJ20 |
| 6 | 10-14.8mm (CFT or Lam.) GLASS |
| 7 | BLINDS |
| 8 | K54FT |
| 9 | K54BI |
| 10 | K54GB |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Vertical Screen Offset Blinds



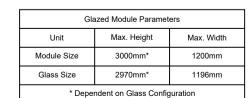
0 min Integrity 0 min Insulation

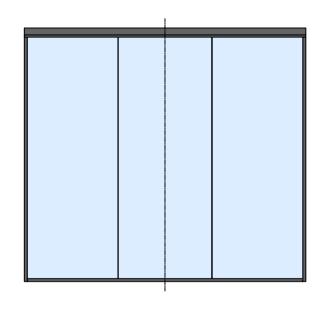


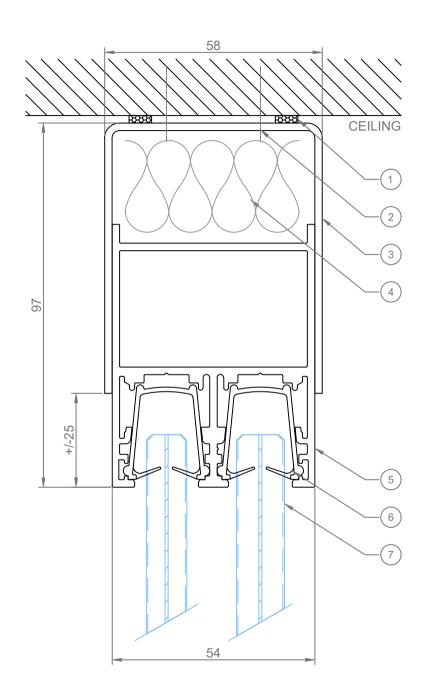
0 mm Deflection

| K54-VS-08 | 05/05/2 |
|-------------|---------|
| DRAWING NO: | DATE: |
| | |

SCALE: 1:1









Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54DHC | |
| 4 | 881S50 | |
| 5 | K54DH | |
| 6 | SJ20 | |
| 7 | 10-14.8mm (CFT or Lam.) GLASS | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Deflection Head Over Screen

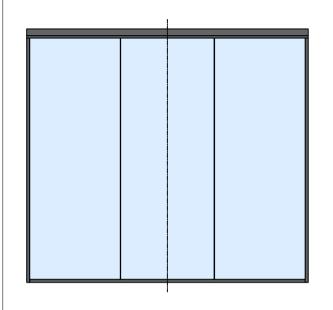


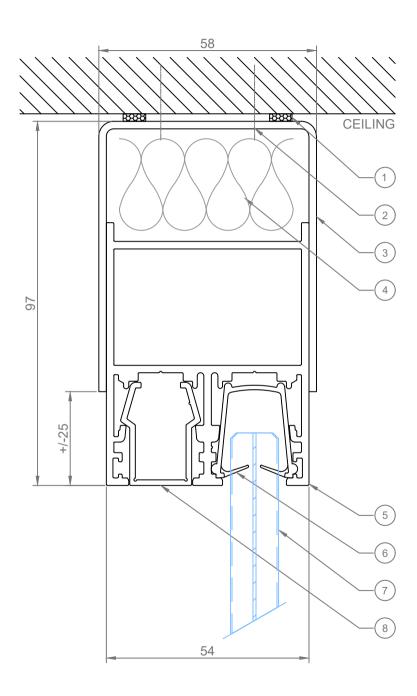
0 min Integrity 0 min Insulation



+/-25 mm Deflection

| DRAWING NO: | DATE: |
|-------------|-----------|
| K54-VS-03 | 05/05/21 |
| SCALE: | ISSUE NO: |







Polar 54

| COMPONENT KEY: | |
|----------------|-------------------------------|
| 1 | 342 FOAM |
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54DHC |
| 4 | 881S50 |
| 5 | K54DH |
| 6 | SJ20 |
| 7 | 10-14.8mm (CFT or Lam.) GLASS |
| 8 | K54GI |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Deflection Head Over Screen

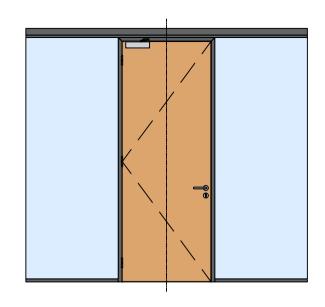


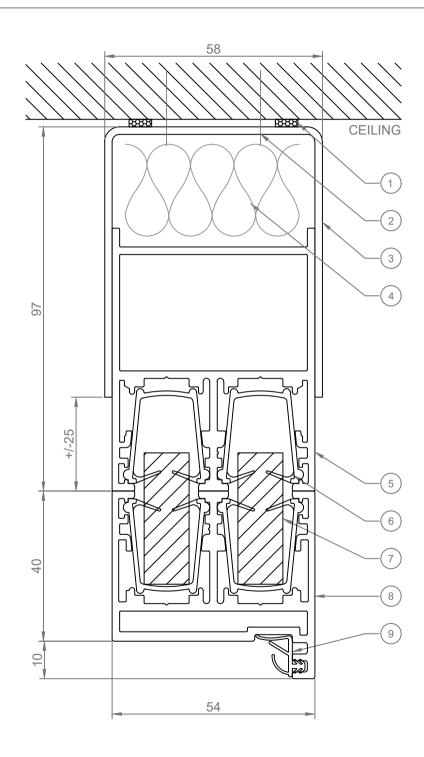
0 min Integrity 0 min Insulation



+/-25 mm Deflection

| ISSUE NO: |
|-----------|
| |







Polar 54

| COMPONENT KEY: | | |
|----------------|----------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54DHC | |
| 4 | 881S50 | |
| 5 | K54DH | |
| 6 | SJ20 | |
| 7 | SJ69 | |
| 8 | K54DF | |
| 9 | K54DS | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Deflection Head Over Door Frame



0 min Integrity 0 min Insulation



+/-25 mm Deflection

| K54-VS-05 | 05/05/21 |
|-------------|----------|
| DRAWING NO: | DATE: |
| | |

SCALE:



CEILING

| COMPONENT KEY: | | |
|----------------|----------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54DHC | |
| 4 | 881S50 | |
| 5 | K54DH | |
| 6 | SJ20 | |
| 7 | SJ69 | |
| 8 | K54DF | |
| 9 | K54DS | |
| | | |

NOTES:

IN CONFIGURATIONS WITH A DOOR FRAME AND DEFLECTION HEAD:

SONIK DOORS MUST BE FULL HEIGHT

GLASS DOORS MUST BE FULL HEIGHT

TIMBER DOORS CAN BE FULL HEIGHT OR WITH A TIMBER OVER PANEL

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Deflection Head Over Door Frame



0 min Integrity 0 min Insulation



+/-25 mm

| T/- | Deflection |
|-----|------------|
| | |

DRAWING NO: K54-VS-05

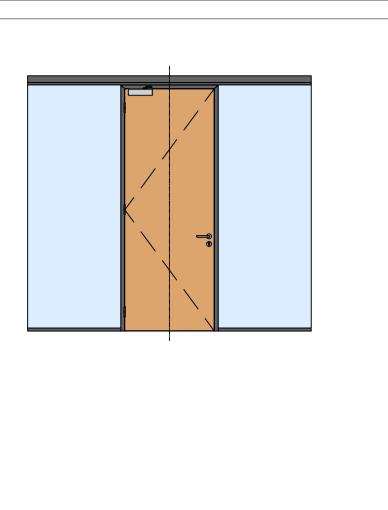
DATE: 10/03/22

4

ISSUE NO:

SCALE:

1:1

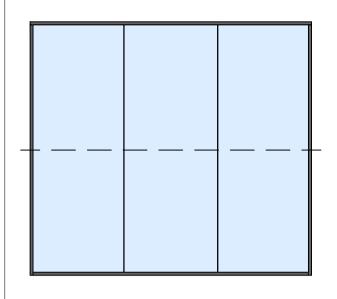


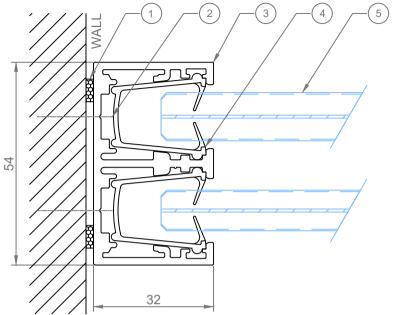
97

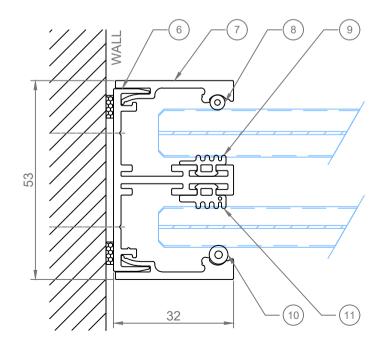
4

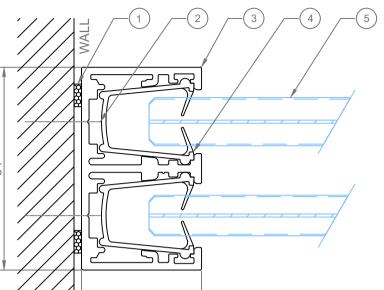
+/-25

54











| COM | COMPONENT KEY: | | |
|-----|-------------------------------|--|--|
| 1 | 342 FOAM | | |
| 2 | SUITABLE STRUCTURAL FIXING | | |
| 3 | K54HT | | |
| 4 | SJ20 | | |
| 5 | 10-14.8mm (CFT or Lam.) GLASS | | |
| 6 | K54FT | | |
| 7 | K54GB | | |
| 8 | K54BG4B (12-12.8mm GLASS) | | |
| 9 | SJ26.12B (12-12.8mm GLASS) | | |
| 10 | SJ26.10B (10-10.8mm GLASS) | | |
| 11 | K54BG5B (10-10.8mm GLASS) | | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Screen Wall Abutments



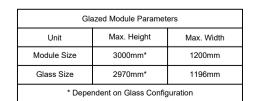
0 min Integrity 0 min Insulation

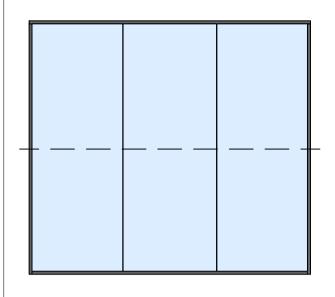


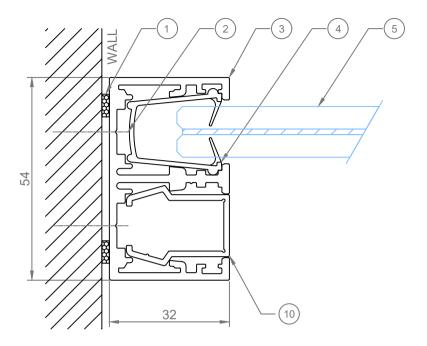
Deflection

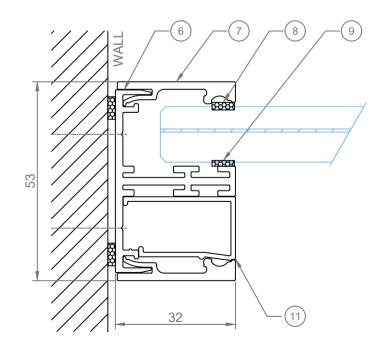
| DRAWING NO: | DATE: |
|-------------|----------|
| K54-HS-01 | 05/05/21 |

SCALE: 1:1











Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54HT | |
| 4 | SJ20 | |
| 5 | 10-14.8mm (CFT or Lam.) GLASS | |
| 6 | K54FT | |
| 7 | K54GB | |
| 8 | 175 (13.5-14.8mm GLASS) | |
| 9 | 174 (14.8mm GLASS) | |
| 10 | K54GI | |
| 11 | K54BI | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Horizontal Screen Wall Abutments



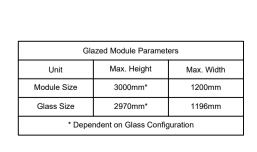
0 min Integrity 0 min Insulation

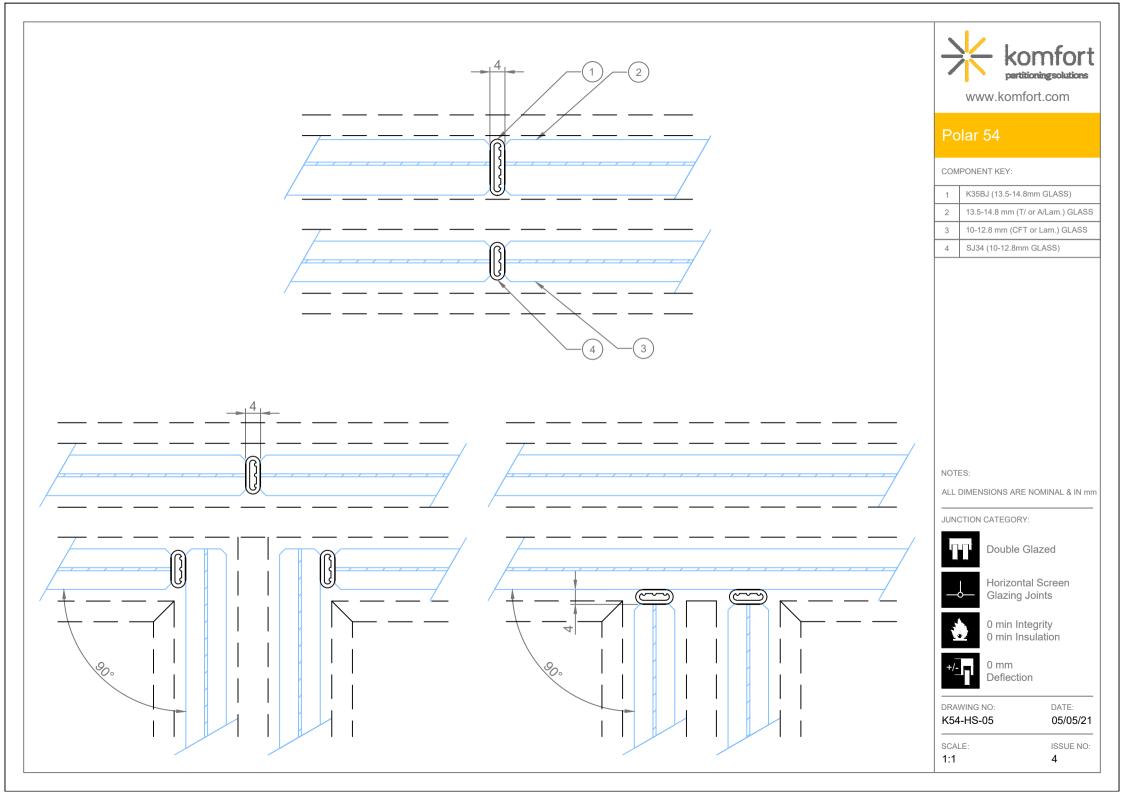


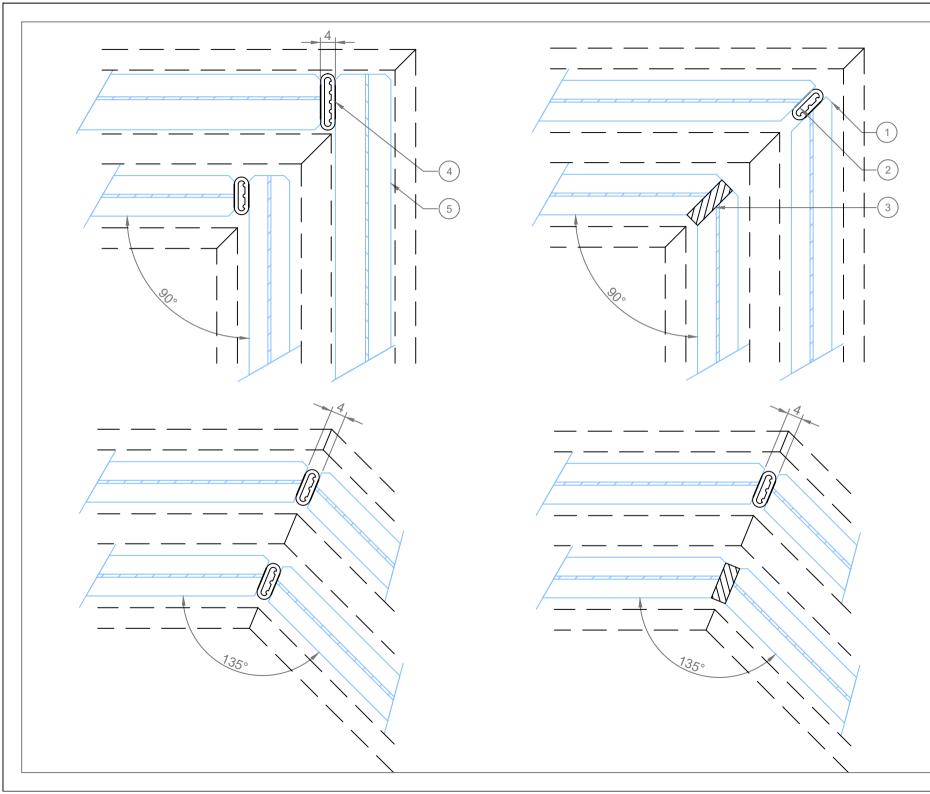
0 mm Deflection

| DRAWING NO: | DATE: |
|-------------|----------|
| K54-HS-02 | 05/05/21 |

SCALE: 1:1









-1-- E4

COMPONENT KEY:

1 10-12.8 mm (CFT or Lam.) GLASS

2 SJ34 (10-12.8mm GLASS)

3 SILICONE JOINT

4 K35BJ (13.5-14.8mm GLASS)

5 13.5-14.8 mm (T/ or A/Lam.) GLASS

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Screen Glazing Joints



0 min Integrity 0 min Insulation

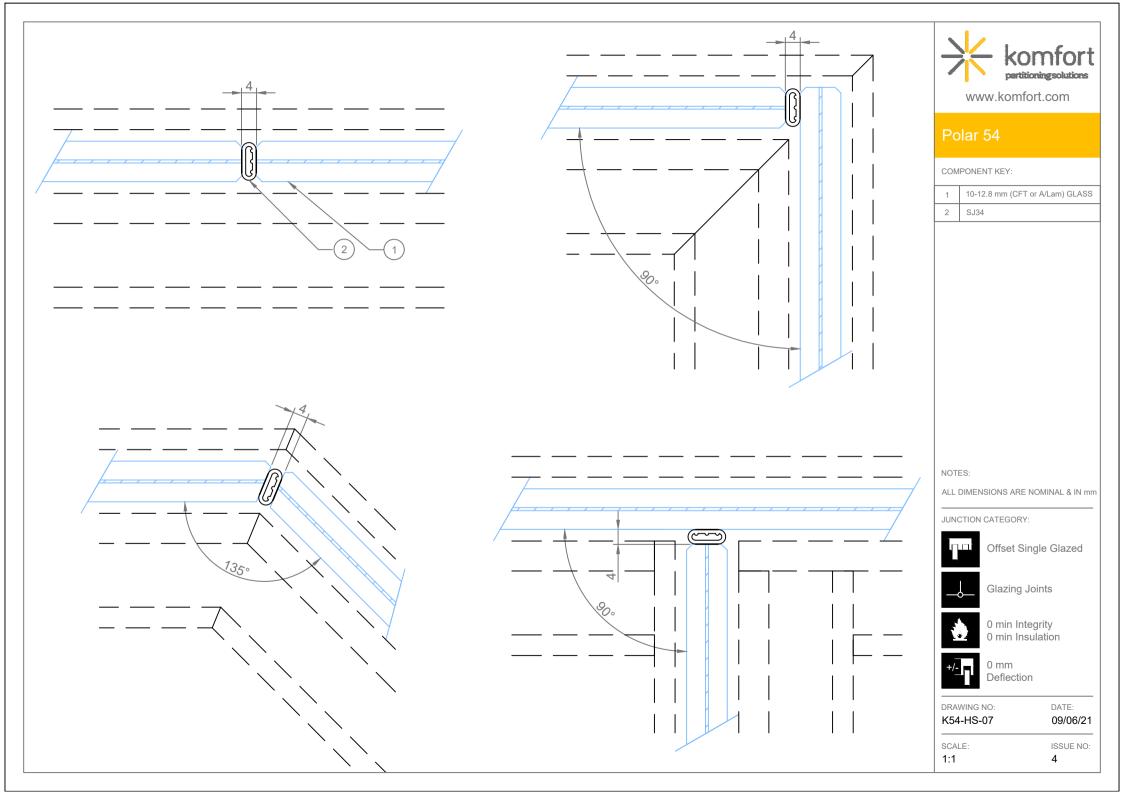


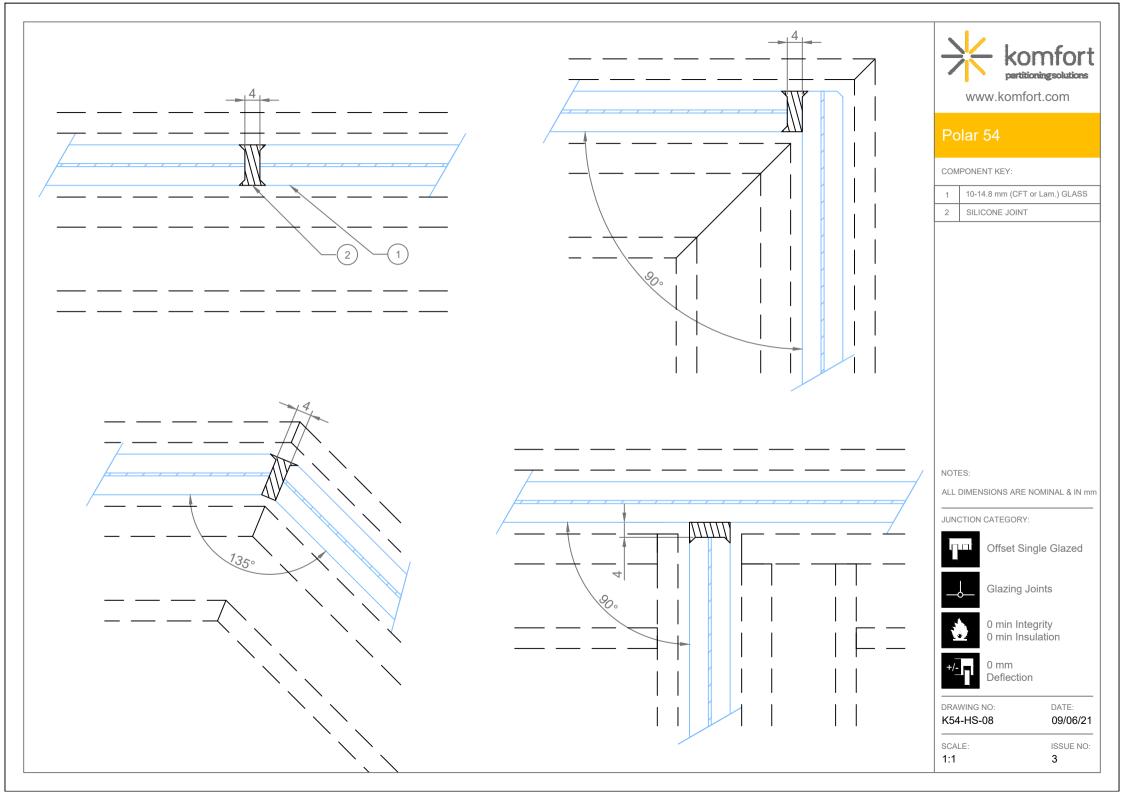
0 mm Deflection

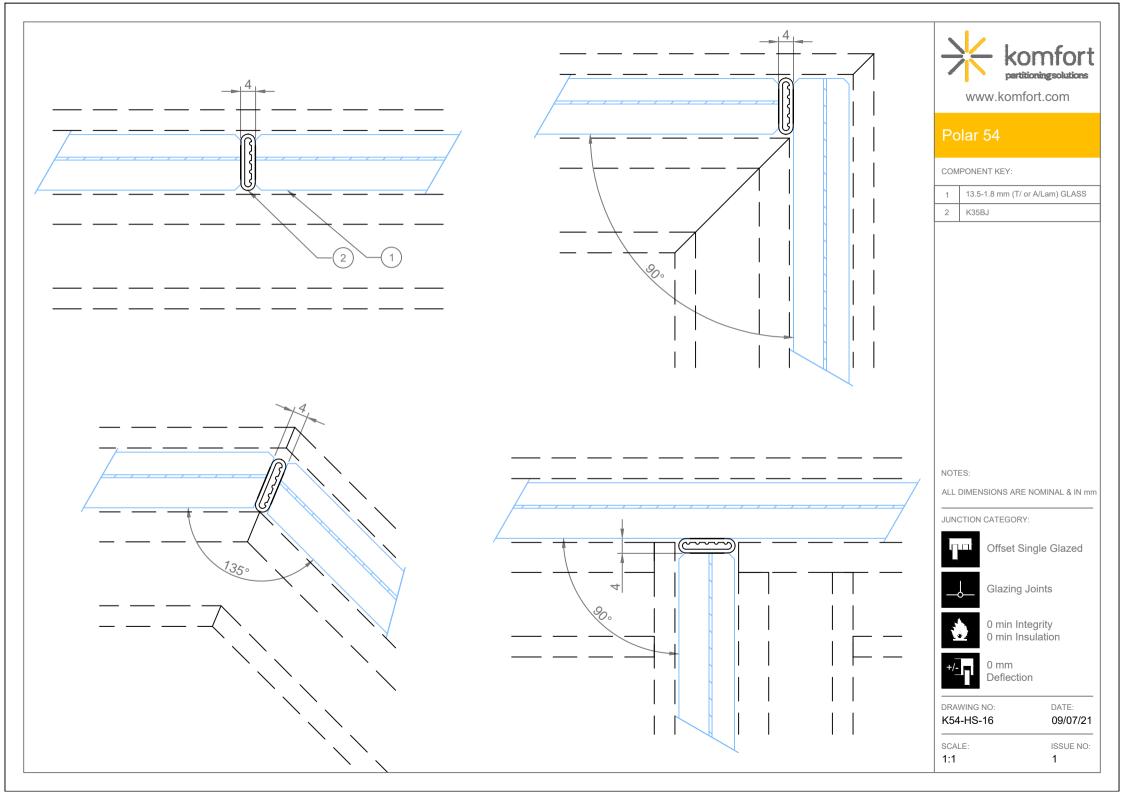
DRAWING NO: K54-HS-06 DATE:

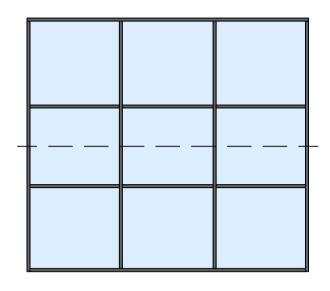
05/05/21

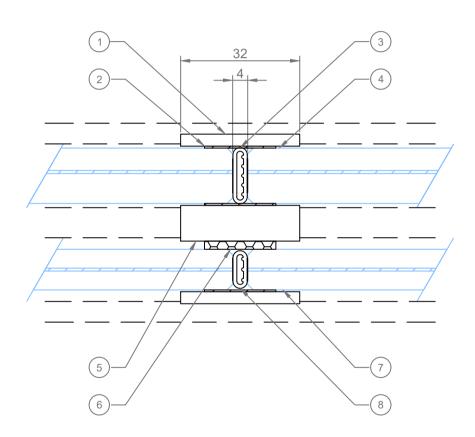
SCALE:











| Glazed Module Parameters | | |
|------------------------------------|-------------|------------|
| Unit | Max. Height | Max. Width |
| Module Size | 3000mm* | 1200mm |
| Glass Size | 2970mm* | 1196mm |
| * Dependent on Glass Configuration | | |



| COMPONENT KEY: | | |
|----------------|-----------------------------------|--|
| 1 | 109 | |
| 2 | TAPE19.1C | |
| 3 | K35BJ | |
| 4 | 13.5-14.8mm (T/ or A/ Lam.) GLASS | |
| 5 | K54KGB | |
| 6 | K54KGF | |
| 7 | 10-12.8mm (CFT or Lam.) GLASS | |
| 8 | 8 13/1 | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Screen Kross Glaze Bars



0 min Integrity 0 min Insulation



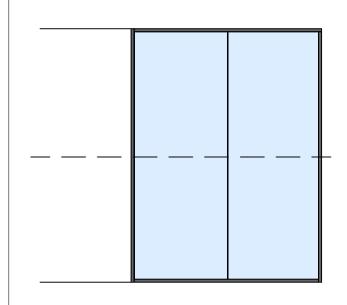
Deflection

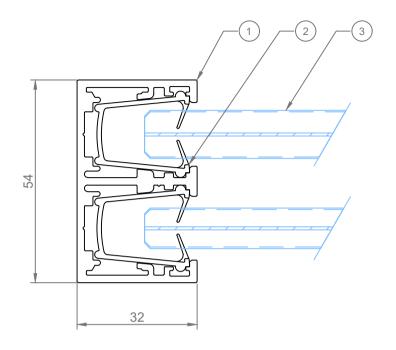
DRAWING NO: DATE: K54-HS-17 13/07/21

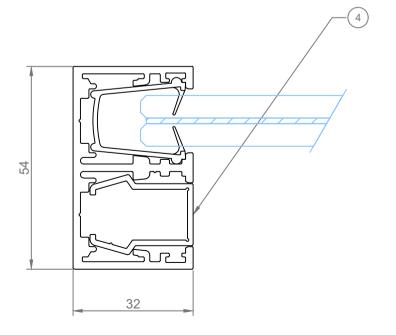
SCALE:

ISSUE NO: 1

1:1









Polar 54

COMPONENT KEY:

1 K54HT
2 SJ20
3 10-14.8mm (CFT or Lam.) GLASS
4 K54GI

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Horizontal Screen Fair End



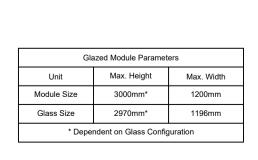
0 min Integrity 0 min Insulation

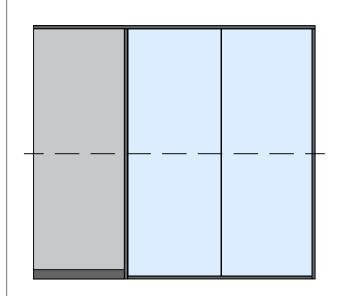


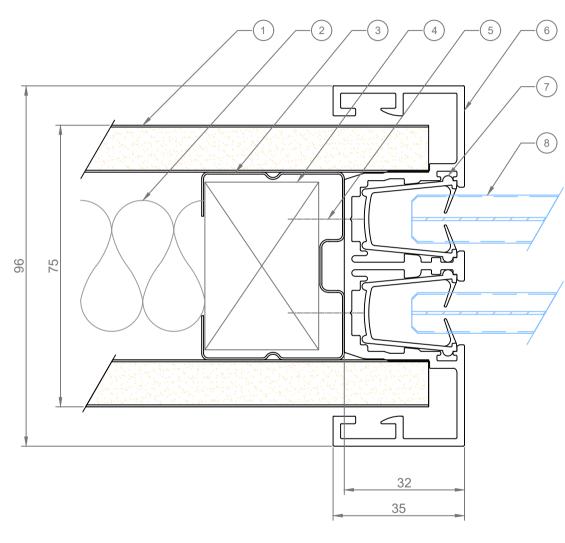
0 mm Deflection

DRAWING NO: DATE: K54-HS-15 14/06/21

SCALE: 1:1









Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 12.5mm PLASTERBOARD | |
| 2 | 881S50 | |
| 3 | 853 | |
| 4 | 331 | |
| 5 | SUITABLE STRUCTURAL FIXING | |
| 6 | K54WA75 | |
| 7 | SJ20 | |
| 8 | 10-14.8mm (CFT or Lam.) GLASS | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Screen 75mm Drywall Adaptor



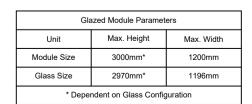
0 min Integrity 0 min Insulation

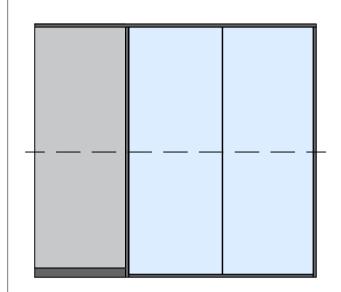


0 mm Deflection

| DRAWING NO: | DATE: |
|-------------|----------|
| K54-HS-11 | 09/06/21 |

SCALE:





Glazed Module Parameters

Max. Height

3000mm*

2970mm*

* Dependent on Glass Configuration

Max. Width

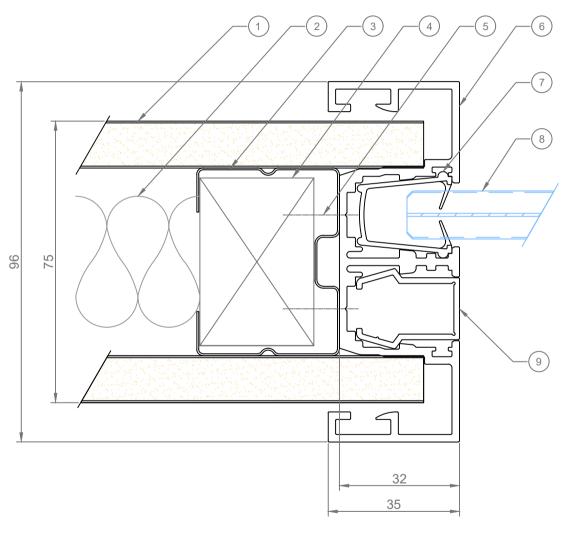
1200mm

1196mm

Unit

Module Size

Glass Size





Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 12.5mm PLASTERBOARD | |
| 2 | 881S50 | |
| 3 | 853 | |
| 4 | 331 | |
| 5 | SUITABLE STRUCTURAL FIXING | |
| 6 | K54WA75 | |
| 7 | SJ20 | |
| 8 | 10-14.8mm (CFT or Lam.) GLASS | |
| 9 | K54GI | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Single Offset Glazed



Horizontal Screen 75mm Drywall Adaptor



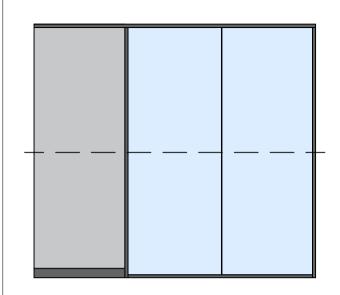
0 min Integrity 0 min Insulation



0 mm Deflection

| DRAWING NO: | DATE: |
|-------------|----------|
| K54-HS-12 | 09/06/21 |

SCALE:



Glazed Module Parameters

Max. Height

3000mm*

2970mm*

* Dependent on Glass Configuration

Max. Width

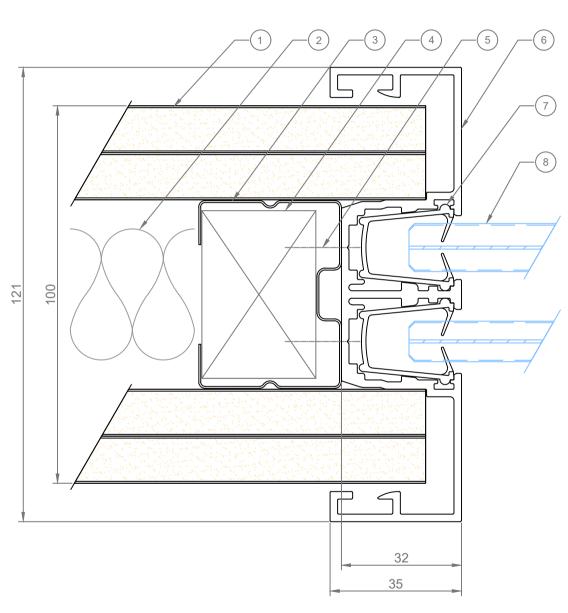
1200mm

1196mm

Unit

Module Size

Glass Size





www.komfort.com

Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 12.5mm PLASTERBOARD | |
| 2 | 881S50 | |
| 3 | 853 | |
| 4 | 331 | |
| 5 | SUITABLE STRUCTURAL FIXING | |
| 6 | K54WA100 | |
| 7 | SJ20 | |
| 8 | 10-14.8mm (CFT or Lam.) GLASS | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Screen 100mm Drywall Adaptor



0 min Integrity 0 min Insulation

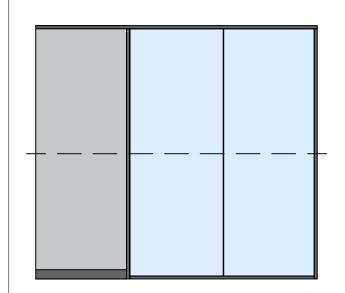


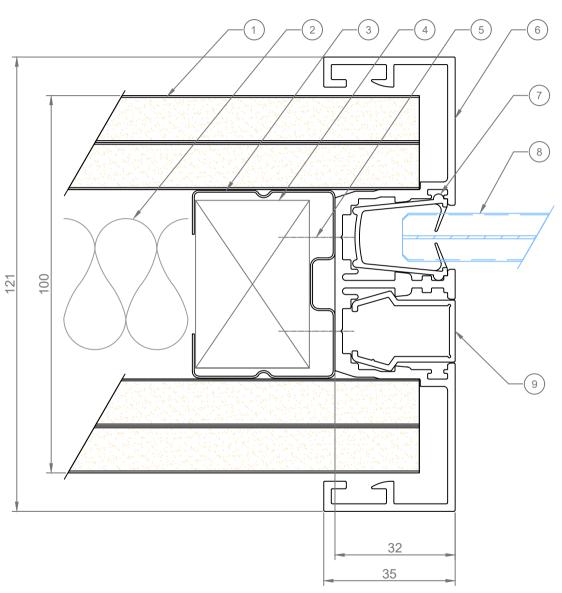
0 mm Deflection

| DRAWING NO: | DATE: |
|-------------|-----------|
| K54-HS-09 | 09/06/21 |
| SCALE: | ISSUE NO: |

1:1

2







Polar 54

| | COMPONENT KEY: | | | |
|--------------------|----------------|-------------------------------|--|--|
| 1 12.5mm PLASTERBO | | 12.5mm PLASTERBOARD | | |
| | 2 | 881S50 | | |
| | 3 | 853 | | |
| | 4 | 331 | | |
| | 5 | SUITABLE STRUCTURAL FIXING | | |
| | 6 | K54WA100 | | |
| | 7 | SJ20 | | |
| | 8 | 10-14.8mm (CFT or Lam.) GLASS | | |
| | 9 | K54GI | | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Horizontal Screen 100mm Drywall Adaptor



0 min Integrity 0 min Insulation



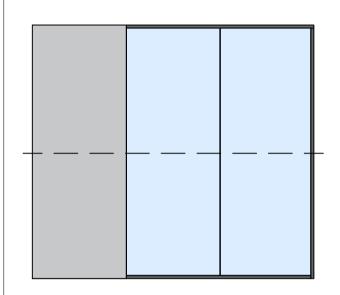
0 mm Deflection

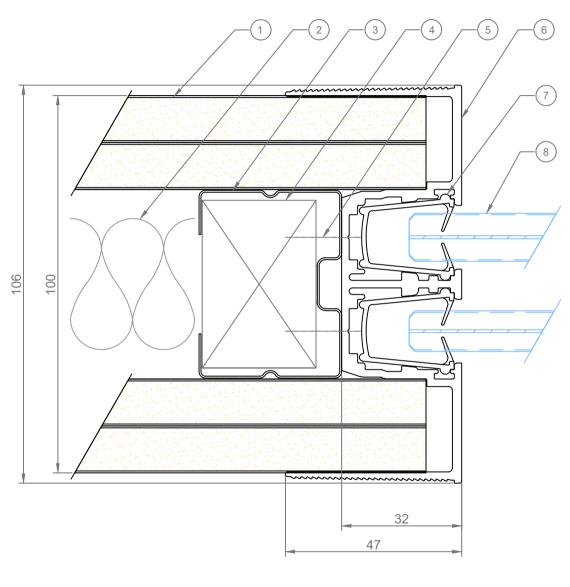
| DRAWING NO: | DATE: |
|-------------|-----------|
| K54-HS-10 | 09/06/21 |
| SCALE: | ISSUE NO: |

SCALE: 1:1

2









Polar 54

| COM | COMPONENT KEY: | | |
|--------|-------------------------------|--|--|
| 1 | 12.5mm PLASTERBOARD | | |
| 2 | 881S50 | | |
| 3 | 853 | | |
| 4 | 331 | | |
| 5 | SUITABLE STRUCTURAL FIXING | | |
| 6 | K54TJ100 | | |
| 7 SJ20 | | | |
| 8 | 10-14 8mm (CFT or Lam.) GLASS | | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Screen 100mm Drywall Adaptor



0 min Integrity 0 min Insulation



0 mm Deflection

| 05/05/2 |
|---------|
| DATE: |
| |

SCALE:

ISSUE NO:

* Dependent on Glass Configuration

Glazed Module Parameters

Max. Height

3000mm*

2970mm*

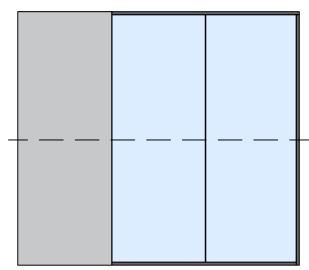
Max. Width

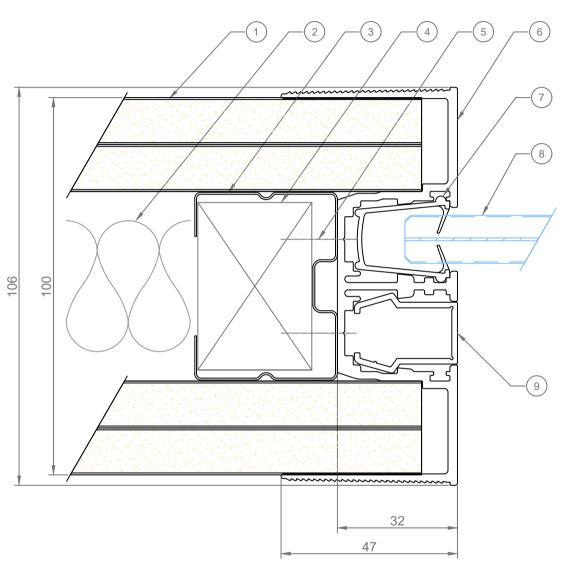
1200mm

1196mm

Unit

Module Size Glass Size







| COMPONENT KEY: | | | |
|-----------------------|-------------------------------|--|--|
| 1 12.5mm PLASTERBOARD | | | |
| 2 | 881S50 | | |
| 3 | 853 | | |
| 4 | 331 | | |
| 5 | SUITABLE STRUCTURAL FIXING | | |
| 6 | K54TJ100 | | |
| 7 | SJ20 | | |
| 8 | 10-14.8mm (CFT or Lam.) GLASS | | |
| 9 | K54GI | | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Horizontal Screen 100mm Drywall Adaptor



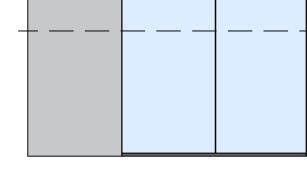
0 min Integrity 0 min Insulation



| DRAWING NO: | DATE: |
|-------------|-----------|
| K54-HS-04 | 05/05/21 |
| SCALE: | ISSUE NO: |

1:1

ISSUE NO: 3



Glazed Module Parameters

Max. Height

3000mm*

2970mm*

* Dependent on Glass Configuration

Max. Width

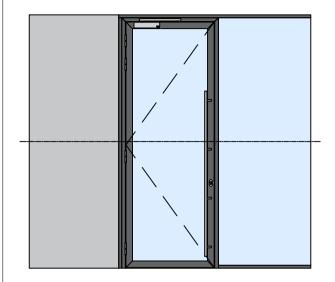
1200mm

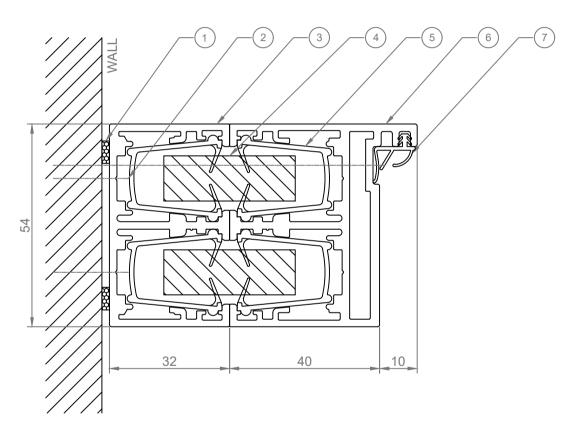
1196mm

Unit

Module Size

Glass Size







Polar 54

| COMPONENT KEY: | | | | |
|----------------|----------------------------|--|--|--|
| 1 | 342 | | | |
| 2 | SUITABLE STRUCTURAL FIXING | | | |
| 3 | K54HT | | | |
| 4 | SJ69 | | | |
| 5 | SJ20 | | | |
| 6 | K54DF | | | |
| 7 | K54DS | | | |

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Single Offset Glazed Double Glazed



Horizontal Screen Door Frame to Wall



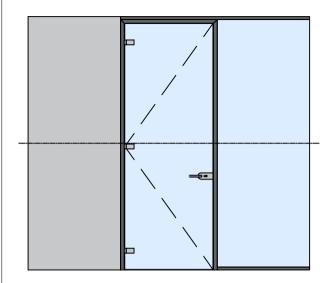
0 min Integrity 0 min Insulation

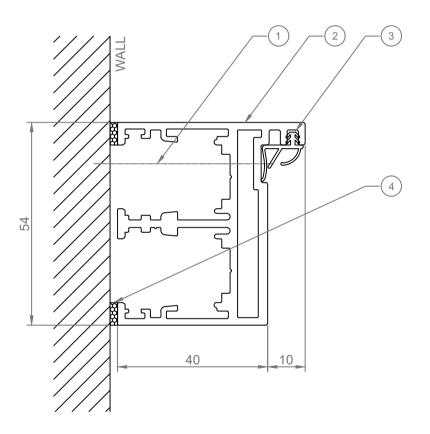


0 mm Deflection

DRAWING NO: DATE: K54-HS-13 09/06/21

SCALE: 1:1







COMPONENT KEY:

1 SUITABLE STRUCTURAL FIXING
2 K54DF
3 K54DS

4 342 FOAM

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Single Offset Glazed Double Glazed



Horizontal Screen Door Frame to Wall



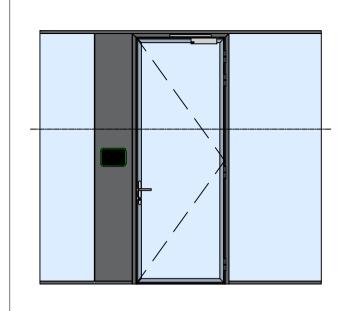
0 min Integrity 0 min Insulation



0 mm Deflection

DRAWING NO: K54-HS-14 DATE: 10/06/21

SCALE: 1:1



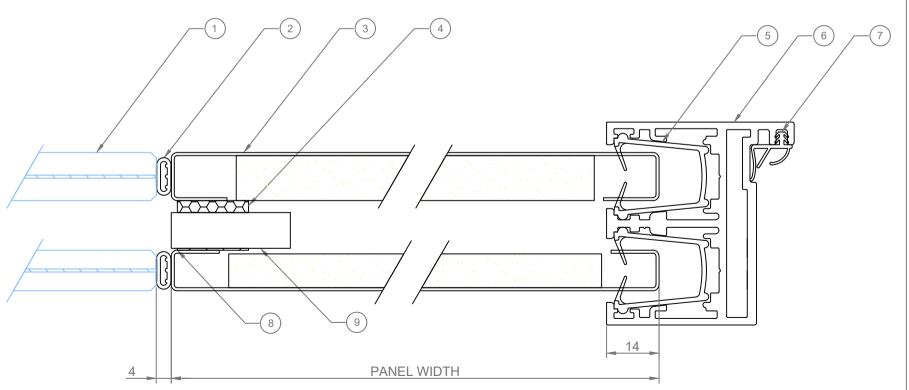
| | Tech Panel Parameters | | | | |
|---|------------------------------------|-------------|------------|--|--|
| | Unit | Max. Height | Max. Width | | |
| | Module Size | 3000mm* | 1200mm | | |
| | Glass Size | 2970mm* | 1196mm | | |
| ı | * Dependent on Glass Configuration | | | | |



Polar 54

| COMPONENT KEY | COL | MPC | DNE | NT | KE' |
|---------------|-----|-----|-----|----|-----|
|---------------|-----|-----|-----|----|-----|

| 1 | 10-14.8mm (CFT or Lam.) GLASS | |
|--------------|-------------------------------|--|
| 2 | SJ34 | |
| 3 POLAR.TECH | | |
| 4 | K54KGF | |
| 5 | SJ20 | |
| 6 | K54DF | |
| 7 | K54DS | |
| 8 | TAPE19.1C | |
| 9 | K54KGB | |



NOTES:

TECH PANELS ARE MADE TO ORDER ITEMS

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Tech Panel Steel Clad Panel



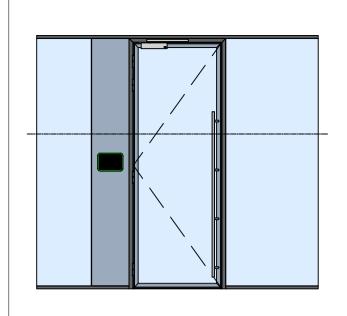
0 min Integrity 0 min Insulation



0 mm Deflection

| <54-HS-18 | 14/07/21 |
|------------|----------|
| RAWING NO: | DATE: |

SCALE:

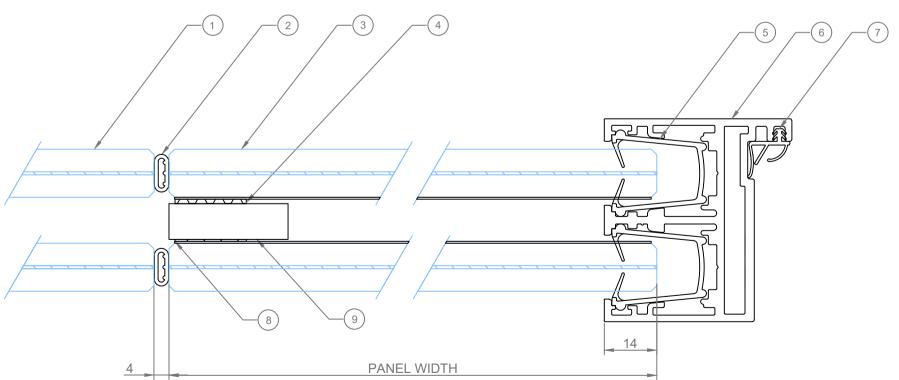


| Tech Panel Parameters | | | | |
|------------------------------------|-------------|------------|--|--|
| Unit | Max. Height | Max. Width | | |
| Module Size | 3000mm* | 1200mm | | |
| Glass Size | 2970mm* | 1196mm | | |
| * Dependent on Glass Configuration | | | | |



| COMF | ON | EN | ΓKE | Υ: |
|------|----|----|-----|----|
| | | | | |
| | | | | |

| 1 | 10-14.8mm (CFT or Lam.) GLASS |
|---|-------------------------------|
| 2 | SJ34 |
| 3 | BACK PAINTED GLASS |
| 4 | K54KGF |
| 5 | SJ20 |
| 6 | K54DF |
| 7 | K54DS |
| 8 | TAPE19.1C |
| 9 | K54KGB |
| | |



NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Horizontal Tech Panel Back Painted Glass



0 min Integrity 0 min Insulation



0 mm Deflection

DRAWING NO: DATE: K54-HS-19 14/07/21

SCALE: 1:1



COMPONENT KEY:

| 1 | 342 FOAM |
|---|-------------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54HT |
| 4 | SJ20 |
| 5 | 10-14.8mm (CFT or Lam.) GLASS |
| 6 | PSUN PACKERS |
| 7 | K54DF |
| 8 | K54DS |
| 9 | SONIK 52, 70 OR 70R DOOR |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Vertical Door



Sonik with Overpanel

DATE:

5

10/03/22

ISSUE NO:



0 min Integrity 0 min Insulation

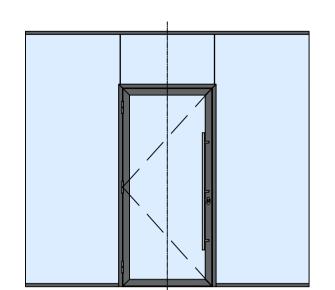


1:2

Deflection

DRAWING NO: K54-VD-01

SCALE:



32

OVERPANEL

5

DOOR HEIGHT

GLASS MUST BE SILICONE CAPPED ON **OVERPANEL**

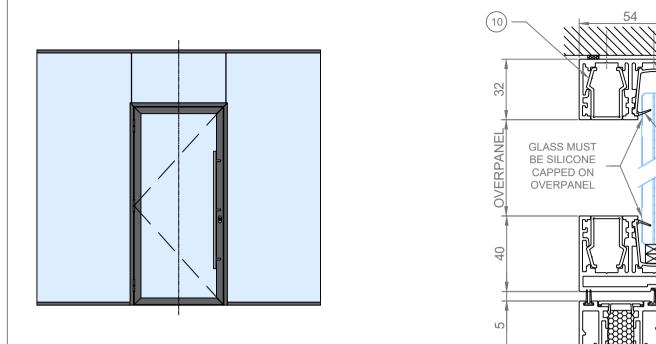
Sonik Door with Glazed Overpanel Parameters

* Please note that maximum overpanel height is based on it

| being no more than 25% of the actual door height. | | | |
|---|---------|---------------|--|
| | Minimum | Maximum | |
| Overpanel Height | 200mm | Up to 583mm* | |
| Door Height | 1981mm | Up to 2716mm* | |
| Overall Height | 2265mm | Up to 3000mm^ | |

^ Dependent on Screen Glass Configuration

Maximum Door Weight = 120kg





COMPONENT KEY:

| 1 | 342 FOAM |
|----|-------------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54HT |
| 4 | K54GI |
| 5 | SJ20 |
| 6 | 10-14.8mm (CFT or Lam.) GLASS |
| 7 | PSUN PACKERS |
| 8 | K54DF |
| 9 | K54DS |
| 10 | SONIK 52, 70 OR 70R DOOR |

NOTES:

(9)

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Vertical Sonik Door



0 min Integrity 0 min Insulation



Deflection

DRAWING NO: DATE: K54-VD-04 10/03/22

SCALE: 1:2

ISSUE NO: 5

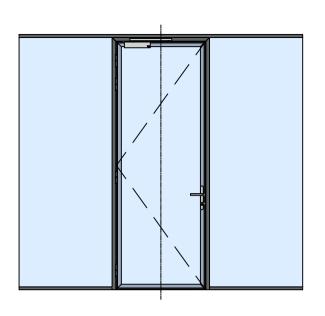
Sonik Door with Glazed Overpanel Parameters

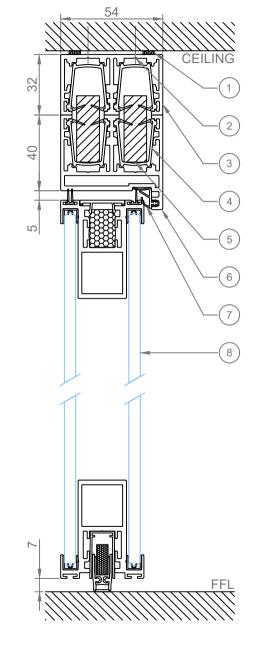
* Please note that maximum overpanel height is based on it

| being no more than 25% of the actual door neight. | | | |
|---|---------|--------------|--|
| | Minimum | Maximum | |
| Overpanel Height | 200mm | Up to 583mm* | |
| Door Height | 1981mm | Up to 2716mm | |
| Overall Height | 2265mm | Up to 3000mm | |

^ Dependent on Screen Glass Configuration

Maximum Door Weight = 120kg





| Full Height Sonik Door Parameters | | | | |
|-----------------------------------|--------|---------|--|--|
| Minimum Maximum | | | | |
| Door Height | 1981mm | 2916mm | | |
| Overall Height | 2065mm | 3000mm* | | |
| * D | | | | |

* Dependent on Screen Glass Configuration

Maximum Door Weight = 120kg

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Polar 54

COMPONENT KEY:

| 1 | 342 FOAM |
|---|----------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54HT |
| 4 | SJ20 |
| 5 | SJ69 |
| 6 | K54DF |
| 7 | K54DS |
| 8 | SONIK 52, 70 OR 70R DOOR |
| | |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Full Height Sonik



0 min Integrity 0 min Insulation



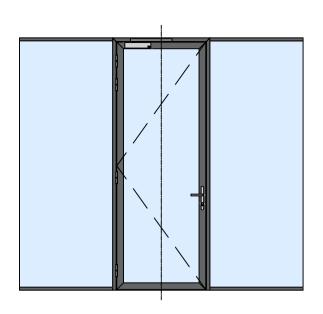
0 mm Deflection

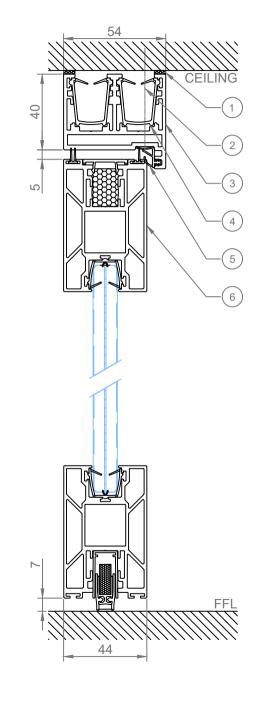
DRAWING NO: DATE: K54-VD-07 10/03/22

SCALE: 1:2

ISSUE NO:

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COMPONENT KEY:

| 1 | 342 FOAM |
|---|----------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54DF |
| 4 | SJ20 |
| 5 | K54DS |
| 6 | SONIK 52, 70 OR 70R DOOR |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Full Height Sonik



0 min Integrity 0 min Insulation



Deflection

| DRAWING NO: | DATE: |
|-------------|----------|
| K54-VD-11 | 10/03/22 |

SCALE:

ISSUE NO: 1:2 2



* Dependent on Screen Glass Configuration

Maximum Door Weight = 120kg



CEILING

32

COMPONENT KEY:

| 1 | 342 FOAM |
|---|----------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54HT |
| 4 | SJ20 |
| 5 | SJ69 |
| 6 | K54DF |
| 7 | K54DS |
| 8 | SONIK 70 OR 70R DOOR |
| 9 | G930 BTS75V FLOOR SPRING |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Sonik with Floor Spring



0 min Integrity 0 min Insulation



1:2

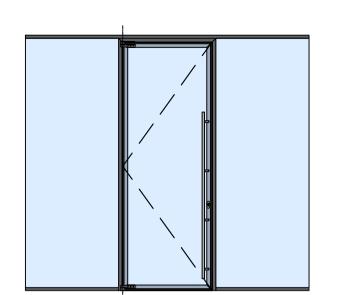
ection

| | D | efle |
|--|---|------|
| | | |

| DRAWING NO: | DATE: |
|-------------|----------|
| K54-VD-14 | 10/03/22 |

SCALE: ISSUE NO: 2

| | | | | 9 |
|----------------|----------------------|--------------|---|--------|
| Full Hei | ight Sonik Door Para | meters | | |
| | Minimum | Maximum | 1 | |
| Door Height | 1981mm | 2916mm | 1 | |
| Overall Height | 2065mm | 3000mm* | 1 | |
| * Dependent | t on Screen Glass Co | onfiguration | 1 | |
| Maxim | num Door Weight = 1 | 120kg | 1 | |
| | | | _ | D AD D |



Full Height Sonik Door Parameters

Minimum

1981mm

2065mm

* Dependent on Screen Glass Configuration

Maximum Door Weight = 120kg

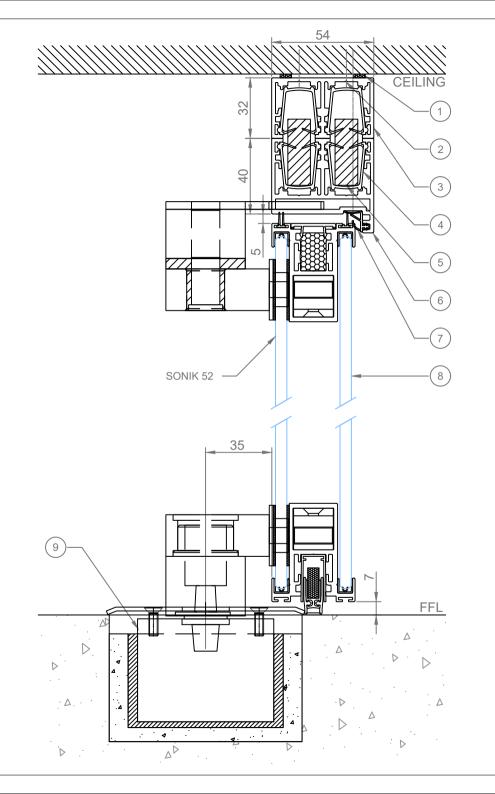
Door Height

Overall Height

Maximum

2916mm

3000mm*





Polar 54

| COMPONENT | KEY: |
|-----------|------|

| 1 | 342 FOAM |
|---|----------------------------|
| 2 | SUITABLE STRUCTURAL FIXING |
| 3 | K54HT |
| 4 | SJ20 |
| 5 | SJ69 |
| 6 | K54DF |
| 7 | K54DS |
| 8 | SONIK 52 DOOR |
| 9 | G930 BTS75V FLOOR SPRING |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Sonik with Floor Spring



0 min Integrity 0 min Insulation



K54-VD-15

1:2

0 mm Deflection

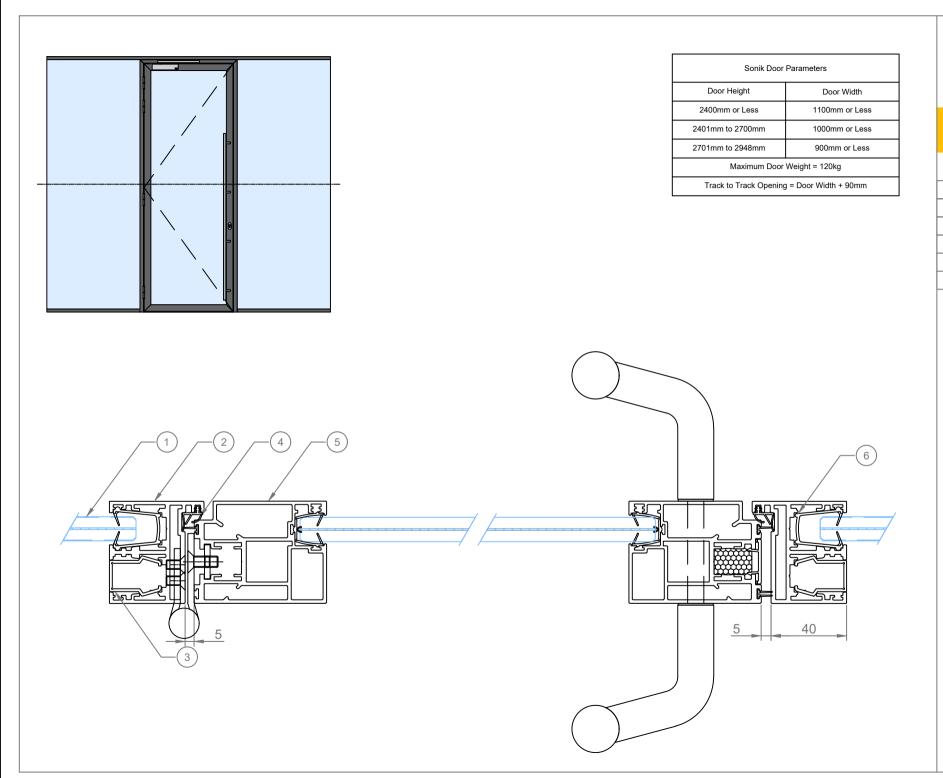
| <u> </u> | |
|-----------|-------|
| AWING NO: | DATE: |

SCALE:

ISSUE NO:

10/03/22

::





Polar 54

COMPONENT KEY:

| 1 | 10-14.8mm (CFT or Lam.) GLASS |
|---|-------------------------------|
| 2 | K54DF |
| 3 | K54GI |
| 4 | K54DS |
| 5 | SONIK 52, 70 OR 70R DOOR |
| 6 | SJ20 |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed
Offset Single Glazed



Horizontal Door Sonik Single Doorset



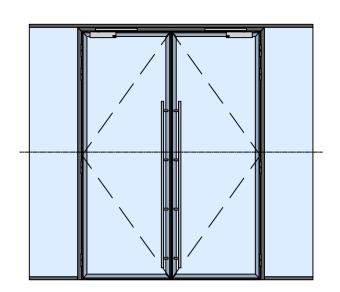
0 min Integrity 0 min Insulation



0 mm Deflection

DRAWING NO: DATE: K54-HD-01 10/03/22

SCALE:



| Sonik Door Parameters | | | | |
|--|------------------------|--|--|--|
| Door Height | Door Width | | | |
| 2400mm or Less | 1100mm or Less | | | |
| 2401mm to 2700mm | 1000mm or Less | | | |
| 2701mm to 2948mm | 900mm or Less | | | |
| Maximum Door Weight = 120kg | | | | |
| Track to Tra | Track to Track Opening | | | |
| Lift Off Hinges Offset Pivots | | | | |
| Door Widths + 96mm Door Widths + 100mm | | | | |



COMPONENT KEY:

| 1 | 10-14.8mm (CFT or Lam.) GLASS |
|---|-------------------------------|
| 2 | K54DF |
| 3 | SJ20 |
| 4 | K54DS |
| 5 | SONIK 52, 70 OR 70R DOOR |

NOTES:

SONIK DOORS MUST BE FULL HEIGHT IN DOUBLE DOORSETS

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed
Offset Single Glazed



Horizontal Door Sonik Double Doorset

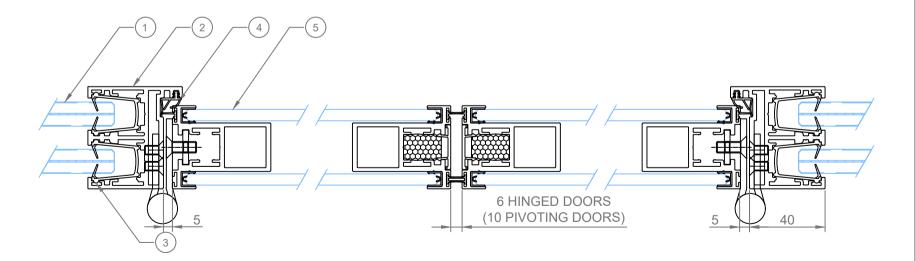


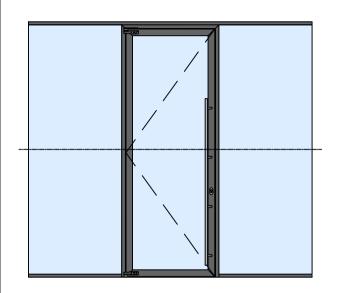
0 min Integrity 0 min Insulation



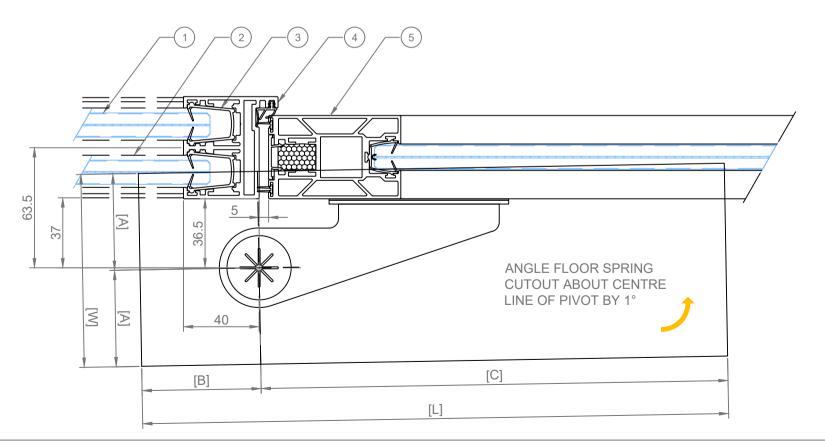
0 mm Deflection

| DRAWING NO: | DATE: | | |
|-------------|-----------|--|--|
| K54-HD-04 | 10/03/22 | | |
| SCALE: | ISSUE NO: | | |





| Setting Out Details for Sonik Doors on Offset Pivots with Floor Springs | | | | | | |
|---|--|-------|-------|------|------|-------|
| Floor Spring | Floor Type Scenario | [W] | [L] | [A] | [B] | [C] |
| BTS75V | Raised Access Floor or Timber/Auxiliary Covering With Coffer Box | 92mm | 296mm | 46mm | 56mm | 240mm |
| B19/3V | Concrete or Solid Substrate Floor Spring Body Only | 102mm | 310mm | 51mm | 63mm | 247mm |





Polar 54

COMPONENT KEY:

| 1 | 10-14.8mm (CFT or Lam.) GLASS |
|---|-------------------------------|
| 2 | K54FT |
| 3 | SJ20 |
| 4 | K54DF |
| 5 | SONIK 70 OR 70R DOOR |
| | |

NOTES:

MAXIMUM DOOR WEIGHT = 120KG

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed
Offset Single Glazed



Horizontal Door Sonik with Floor Spring



0 min Integrity 0 min Insulation

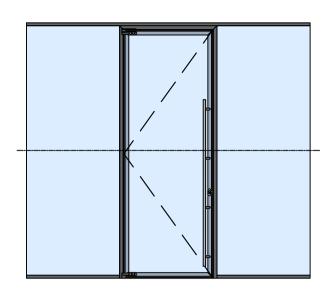


1:2

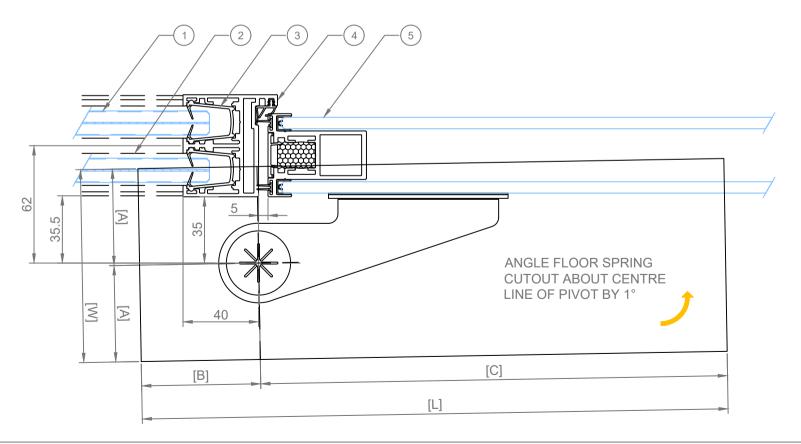
0 mm Deflection

| DRAWING NO: | DATE: |
|-------------|-----------|
| K54-HD-07 | 10/03/22 |
| SCALE: | ISSUE NO: |

2



| Setting Out Details for Sonik Doors on Offset Pivots with Floor Springs | | | | | | |
|---|--|-------|-------|------|------|-------|
| Floor Spring | Floor Type Scenario | [W] | [L] | [A] | [B] | [C] |
| BTS75V | Raised Access Floor or Timber/Auxiliary Covering With Coffer Box | 92mm | 296mm | 46mm | 56mm | 240mm |
| | Concrete or Solid Substrate Floor Spring Body Only | 102mm | 310mm | 51mm | 63mm | 247mm |





Polar 54

COMPONENT KEY:

| 1 | 10-14.8mm (CFT or Lam.) GLASS |
|---|-------------------------------|
| 2 | K54FT |
| 3 | SJ20 |
| 4 | K54DF |
| 5 | SONIK 52 DOOR |

OTES:

MAXIMUM DOOR WEIGHT = 120KG

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed
Offset Single Glazed



Horizontal Door Sonik with Floor Spring



0 min Integrity 0 min Insulation

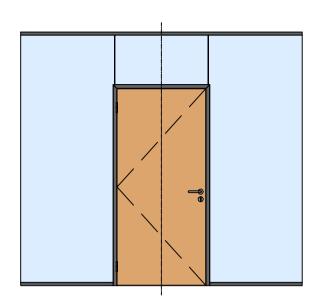


0 mm Deflection

DRAWING NO: DATE: K54-HD-08 10/03/22

SCALE: 1:2 ISSUE NO:

2

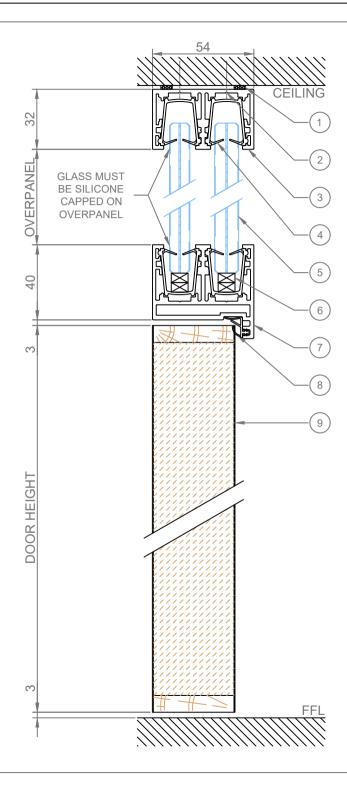


| | Timber Door with Glazed Overpanel Parameters |
|-------|--|
| * Ple | ase note that maximum overpanel height is based or |
| | being no more than 25% of the actual door height. |

| | Minimum | Maximum |
|------------------|---------|---------------|
| Overpanel Height | 200mm | Up to 584mm* |
| Door Height | 1981mm | Up to 2722mm* |
| Overall Height | 2259mm | Up to 3000mm^ |
| | | |

^ Dependent on Screen Glass Configuration

Maximum Door Weight = 80kg





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Polar 54

44mm or 54mm TIMBER DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Vertical Door Timber with Overpanel



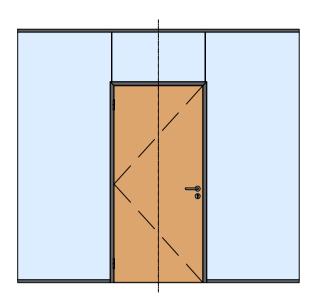
0 min Integrity 0 min Insulation



0 mm Deflection

DRAWING NO: DATE: K54-VD-02 10/06/21

SCALE: 1:2

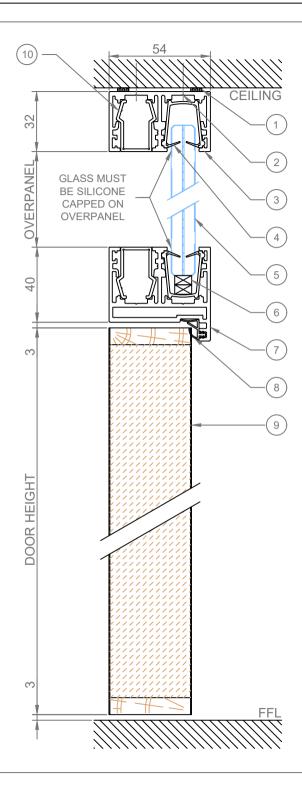


| * Please note that maximum overpanel height is based on it being no more than 25% of the actual door height. | | | |
|--|---------|---------------|--|
| | Minimum | Maximum | |
| Overpanel Height | 200mm | Up to 584mm* | |
| Door Height | 1981mm | Up to 2722mm* | |
| Overall Height | 2259mm | Up to 3000mm^ | |

Timber Door with Glazed Overpanel Parameters

^ Dependent on Screen Glass Configuration

Maximum Door Weight = 80kg





www.komfort.com

Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54HT | |
| 4 | SJ20 | |
| 5 | 10-14.8mm (CFT or Lam.) GLASS | |
| 6 | PSUN PACKERS | |
| 7 | K54DF | |
| 8 | K54DS | |
| 9 | 44mm or 54mm TIMBER DOOR | |
| 10 | K54GI | |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Vertical Door Timber with Overpanel



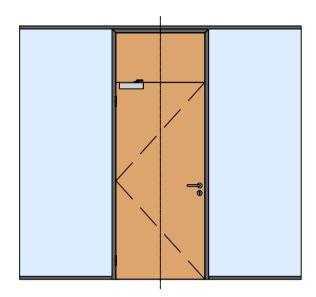
0 min Integrity 0 min Insulation



0 mm Deflection

DRAWING NO: DATE: K54-VD-05 11/06/21

SCALE: 1:2



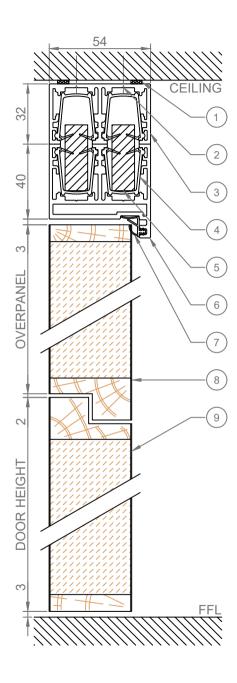
| Timber Door with Timber Overpanel Paramete | rs |
|--|----|
|--|----|

^{*} Please note that maximum overpanel height is based on it being no more than 25% of the actual door height.

| • | | |
|------------------|---------|---------------|
| | Minimum | Maximum |
| Overpanel Height | 250mm | Up to 584mm* |
| Door Height | 1981mm | Up to 2670mm* |
| Overall Height | 2311mm | 3000mm^ |
| | | |

^ Dependent on Screen Glass Configuration

Maximum Door Weight = 80kg





www.komfort.com

Polar 54

| COMPONENT KEY: | | |
|----------------|---|----------------------------|
| | 1 | 342 FOAM |
| | 2 | SUITABLE STRUCTURAL FIXING |
| | 3 | K54HT |
| | 4 | SJ20 |
| | 5 | SJ69 |
| | 6 | K54DF |
| | 7 | K54DS |
| | 8 | 44mm TIMBER OVERPANEL |
| | 9 | 44mm TIMBER DOOR |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Timber with Overpanel



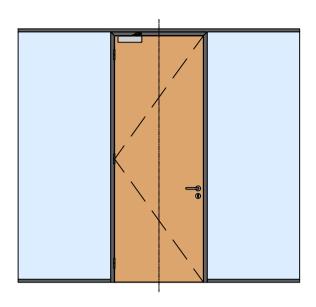
0 min Integrity 0 min Insulation



0 mm Deflection

| K54-VD-10 | 11/06/21 |
|-----------|----------|
| K34-VD-10 | 11/06/21 |

SCALE: 1:2



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Polar 54

| COMPONENT KEY: | | |
|----------------|----------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54HT | |
| 4 | SJ20 | |
| 5 | SJ69 | |
| 6 | K54DF | |
| 7 | K54DS | |
| 8 | 44mm or 54mm TIMBER DOOR | |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Full Height Timber



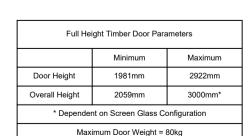
0 min Integrity 0 min Insulation

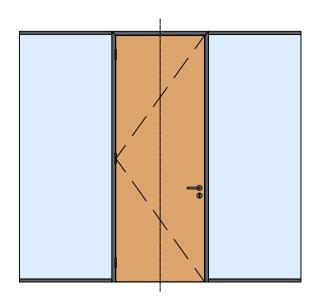


0 mm Deflection

| DRAWING NO: | DATE: |
|-------------|----------|
| K54-VD-08 | 11/06/21 |

SCALE: 1:2





| Full He | ight Timber Door Par | T | | | κ (1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/ |
|----------------|----------------------|---------------|---|--|--|
| | Minimum | Maximum | | | 1 1 |
| Door Height | 1981mm | 2954mm | | | |
| Overall Height | 2027mm | 3000mm* | | | .///// |
| * Depender | nt on Screen Glass C | Configuration | 7 | | - |
| Max | imum Door Weight = | 80kg | 7 | | |
| Max | imum Door Weight = | 80kg | | | |



Polar 54

| COMPONENT KEY: | | |
|----------------|----------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54DF | |
| 4 | SJ20 | |
| 5 | K54DS | |
| 6 | 44mm or 54mm TIMBER DOOR | |
| | 1 2 3 4 5 | |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Full Height Timber



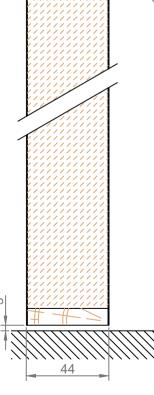
0 min Integrity 0 min Insulation



0 mm Deflection

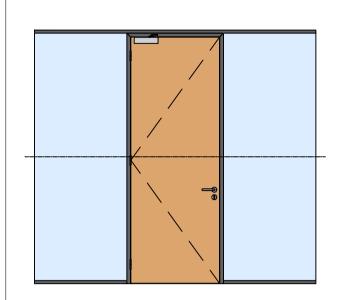
| K54-VD-12 | 11/06/2 |
|-------------|---------|
| DRAWING NO: | DATE: |

SCALE: 1:2 ISSUE NO:



40

3



Timber Door Parameters

Minimum Door Width = 838mm

Maximum Door Weight = 80kg

Track to Track Opening = Door Width + 85mm



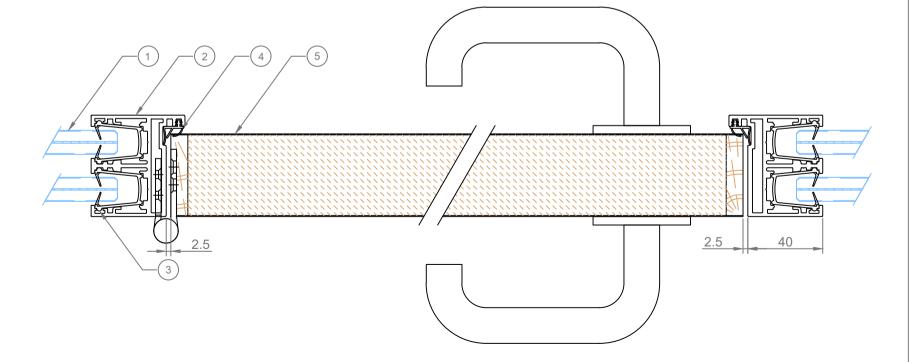
www.komfort.com

Polar 54

COMPONENT KEY:

| 1 | 10-14.8mm (CFT or Lam.) GLASS |
|---|-------------------------------|
| 2 | K54DF |
| 3 | SJ20 |
| 4 | K54DS |

5 44mm or 54mm TIMBER DOOR



NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Horizontal Door Timber Single Doorset



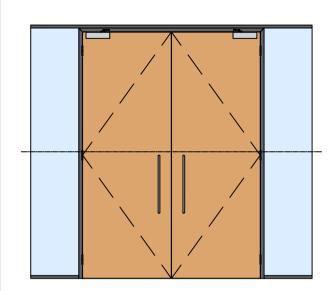
0 min Integrity 0 min Insulation



0 mm Deflection

DRAWING NO: DATE: K54-HD-02 11/06/21

SCALE: 1:2



Timber Door Parameters

Minimum Door Width = 838mm

Maximum Door Weight = 80kg

Track to Track Opening = Door Widths + 89mm



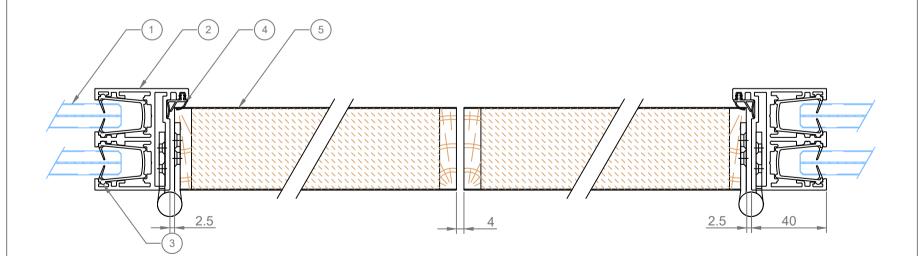
www.komfort.com

Polar 54

COMPONENT KEY:

1 10-14.8mm (CFT or Lam.) GLASS
2 K54DF
3 SJ20
4 K54DS

5 44mm or 54mm TIMBER DOOR



NOTES:

TIMBER DOORS MUST BE FULL HEIGHT IN DOUBLE DOORSETS

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Horizontal Door Timber Double Doorset



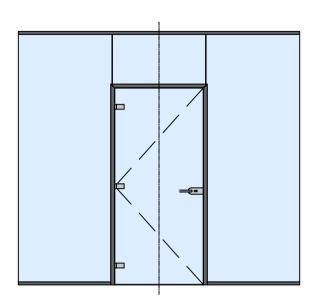
0 min Integrity 0 min Insulation



0 mm Deflection

DRAWING NO: DATE: K54-HD-05 11/06/21

SCALE: 1:2



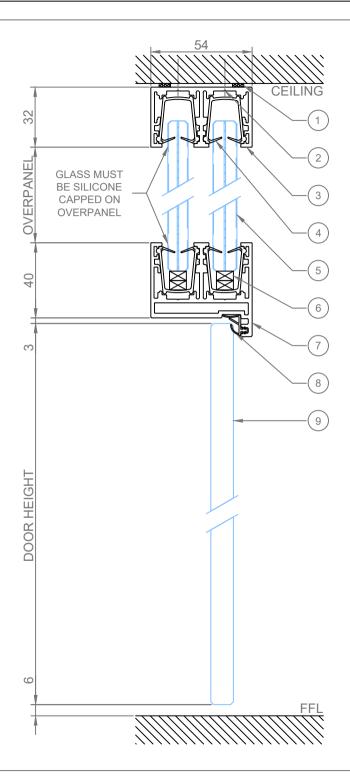
| Framed Glass | Door with | Glazed | Overpanel | Parameters |
|--------------|-----------|--------|-----------|------------|
| | | | | |

^{*} Please note that maximum overpanel height is based on it being no more than 25% of the actual door height.

| | Minimum | Maximum |
|------------------|---------|---------------|
| Overpanel Height | 200mm | Up to 583mm* |
| Door Height | 1981mm | Up to 2700mm* |
| Overall Height | 2262mm | Up to 3000mm^ |
| | | |

^ Dependent on Screen Glass Configuration

Maximum Door Weight = 80kg





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Polar 54

COMPONENT KEY:

1 342 FOAM

2 SUITABLE STRUCTURAL FIXING

3 K54HT

4 SJ20

5 10-14.8mm (CFT or Lam.) GLASS

6 PSUN PACKERS

7 K54DF

8 K54DS

9 10-12mm CFT GLASS DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed



Vertical Door Glass with Overpanel



0 min Integrity 0 min Insulation



0 mm Deflection

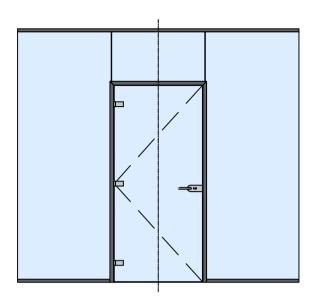
DRAWING NO: DATE: K54-VD-03 11/06/21

SCALE:

1:2

ISSUE NO:

4



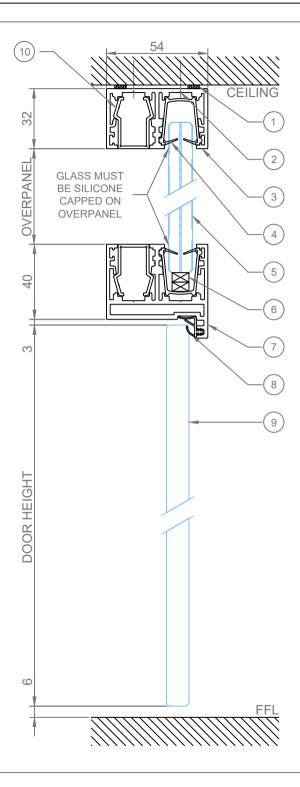
| Framed | Glass | Door with | Glazed | l Overpanel Parameters | 3 |
|--------|-------|-----------|--------|------------------------|---|
| | | | | | |

^{*} Please note that maximum overpanel height is based on it being no more than 25% of the actual door height.

| | Minimum | Maximum |
|------------------|---------|---------------|
| Overpanel Height | 200mm | Up to 583mm* |
| Door Height | 1981mm | Up to 2700mm* |
| Overall Height | 2262mm | Up to 3000mm^ |
| | | |

^ Dependent on Screen Glass Configuration

Maximum Door Weight = 80kg





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Polar 54

| COMPONENT KEY: | | |
|----------------|-------------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54HT | |
| 4 | SJ20 | |
| 5 | 10-14.8mm (CFT or Lam.) GLASS | |
| 6 | PSUN PACKERS | |
| 7 | K54DF | |
| 8 | K54DS | |
| 9 | 10-12mm CFT GLASS DOOR | |
| 10 | K54GI | |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Offset Single Glazed



Vertical Glass Door



0 min Integrity 0 min Insulation

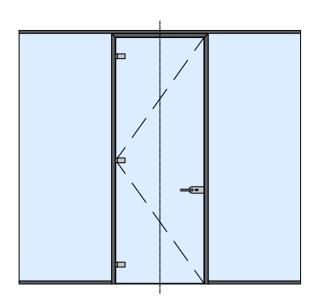


0 mm Deflection

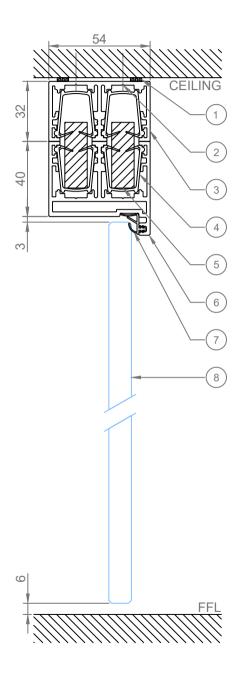
DRAWING NO: K54-VD-06 DATE: 11/0/21

SCALE:

1:2



| Full Height | Framed Glass Door F | Parameters |
|----------------|----------------------|--------------|
| | Minimum | Maximum |
| Door Height | 1981mm | 2700mm |
| Overall Height | 2062mm | 2781mm* |
| * Dependen | t on Screen Glass Co | onfiguration |
| | | |





Polar 54

| COMPONENT KEY: | | |
|----------------|---|----------------------------|
| | 1 | 342 FOAM |
| | 2 | SUITABLE STRUCTURAL FIXING |
| | 3 | K54HT |
| | 4 | SJ20 |
| | 5 | SJ69 |
| | 6 | K54DF |
| | 7 | K54DS |
| | 8 | 10-12mm CFT GLASS DOOR |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Full Height Glass



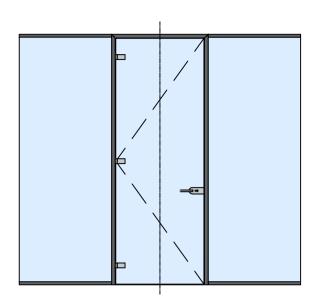
0 min Integrity 0 min Insulation

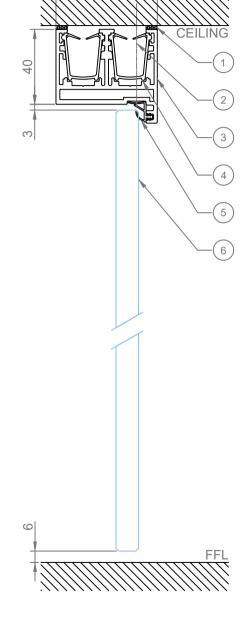


0 mm Deflection

| K54-VD-09 | 11/06/2 |
|-------------|---------|
| DRAWING NO: | DATE: |

SCALE: 1:2







Polar 54

| COMPONENT KEY: | | |
|----------------|----------------------------|--|
| 1 | 342 FOAM | |
| 2 | SUITABLE STRUCTURAL FIXING | |
| 3 | K54DF | |
| 4 | SJ20 | |
| 5 | K54DS | |
| 6 | 10-12mm CFT GLASS DOOR | |

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Vertical Door Full Height Glass



0 min Integrity 0 min Insulation

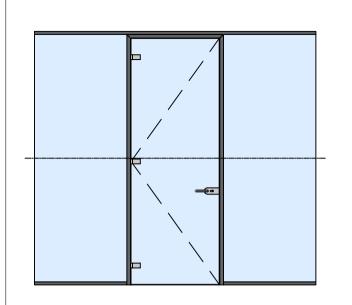


0 mm Deflection

| <54-VD-13 | 11/06/21 |
|-----------|----------|
| | |

SCALE: ISSUE NO: 1:2 1

| Full Height | Full Height Framed Glass Door Parameters | | |
|---|--|---------|--|
| | Minimum | Maximum | |
| Door Height | 1981mm | 2700mm | |
| Overall Height | 2030mm | 2744mm* | |
| * Dependent on Screen Glass Configuration | | | |
| Maximum Door Weight = 80kg | | | |



Frame Glass Door Parameters

Maximum Door Width = 926mm

Maximum Door Weight = 80kg

Track to Track Opening = Door Width + 90mm



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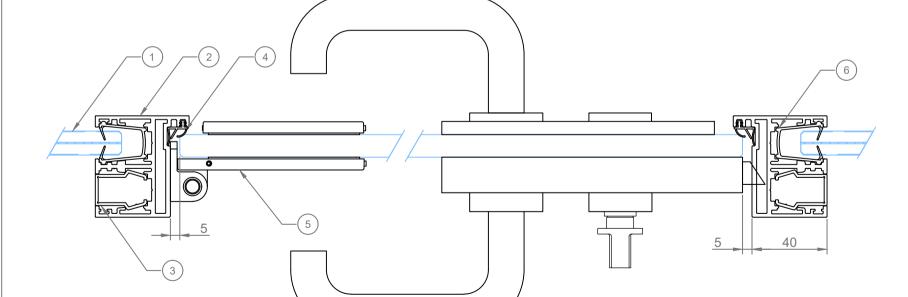
Polar 54

COMPONENT KEY:

| 1 | 10-14.8mm (CFT or Lam.) GLASS | |
|---|-------------------------------|--|
| 2 | K54DF | |
| 3 | K54GI | |
| 4 | K54DS | |

10-12mm CFT GLASS DOOR

SJ20



NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Horizontal Door Glass Single Doorset



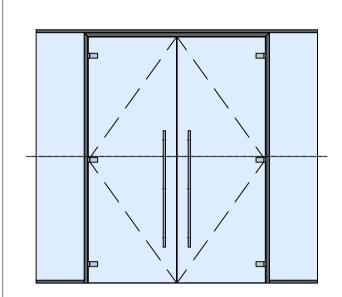
0 min Integrity 0 min Insulation



0 mm Deflection

| 2 |
|---|
| |
| |

SCALE: 1:2



Framed Glass Door Parameters Maximum Door Width = 926mm Maximum Door Weight = 80kg

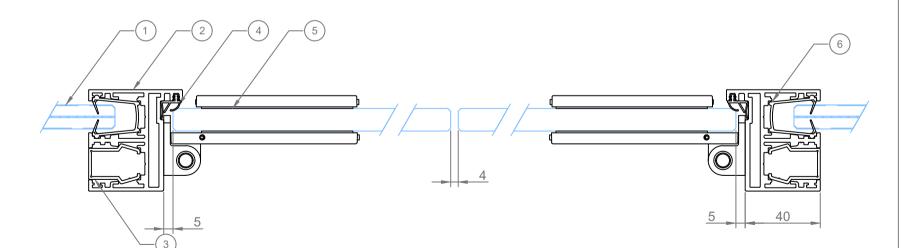
Track to Track Opening = Door Widths + 94mm



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COMPONENT KEY:

| 1 | 10-14.8mm (CFT or Lam.) GLASS |
|---|-------------------------------|
| 2 | K54DF |
| 3 | K54GI |
| 4 | K54DS |
| 5 | 10-12mm CFT GLASS DOOR |
| 6 | SJ20 |



NOTES:

FRAMED GLASS DOORS MUST BE FULL HEIGHT IN DOUBLE DOORSETS

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:



Double Glazed Offset Single Glazed



Horizontal Door Glass Double Doorset



0 min Integrity 0 min Insulation



Deflection

| N34-HD-00 | 11/00/2 |
|-------------|---------|
| K54-HD-06 | 11/06/2 |
| DRAWING NO: | DATE: |

ISSUE NO:

3

SCALE: 1:2